

CURRICULUM VITAE

ACADEMIC STAFF

1.1 Personal Profile

1.1.1 Personal Details

Name: *Prof. Paul Mwangi Maringa*

PF. No.: *Adjunct Professor*

Department/Faculty: *Architecture Department/ School of Architecture and Building Sciences (SABS)*

Designation: *Adjunct Professor of Architecture and Planning*

Email: maringa.paul@ku.ac.ke, website: [//paulmwangimaringa.academia.edu](http://paulmwangimaringa.academia.edu)

Area of Specialization: *Architecture, Urban and Regional Planning, Environmental Planning.*

Research Interests: *Urban growth management, Architectural Design Theory, Quality of TVET*

Google Scholar: https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Paul+Mwangi+Maringa&oq=

ORCID ID: *0009-0007-3471-8028*

ResearchGate: <https://www.researchgate.net/profile/Paul-Maringa-2/publications>

Academica.Edu: <https://jkuat.academia.edu/PaulMwangiMaringa>

Amazon: https://www.amazon.com/Books-Prof-Paul-Mwangi-Maringa/s?rh=n%3A283155%2Cp_27%3AProf%2BPaul%2BMwangi%2BMaringa

1.1.2 Academic & Professional Qualifications

- *EACE 1973-76, Kagumo High School;*
- *EAACE 1977-88, Strathmore College.*
- *B. Arch. Hons.1986, University of Nairobi (UoN).*
- *M.A. Planning, 1991, University of Nairobi (UoN),.*
- *PhD, Environmental Planning, 1995, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Fellow of the Architectural Association of Kenya (FAAK).*
- *Member(g) of the Kenya Institute of Planners (MKIP).*
- *B. Arch. Hons.1986, University of Nairobi (UoN).*
- *M.A. Planning, 1991, University of Nairobi (UoN),.*
- *PhD, Environmental Planning, 1995, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Fellow of the Architectural Association of Kenya (FAAK).*
- *Member(g) of the Kenya Institute of Planners (MKIP).*

1.1.3 Employment History

- *Assistant Architect: Ministry of Public Works, Nairobi Provincial Office, Kenya, 1986-87.*
- *Assistant Architect: Githunguri and Collins International, Nairobi, Kenya, 1987-89.*
- *Assistant Architect: Ramani Consultants, Manzini, Kingdom of Swaziland, 1991-92.*
- *Lecturer; Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya, 1992-2006.*

- *Associate Professor: Kigali Institute of Science and Technology (KIST), Kigali, Rwanda, 2007-2009.*
- *Senior Expert, Project Management and Planning: Workforce Development Authority (WDA), Kigali, Rwanda, 2009-2015.*
- *Principle Secretary (PS), State Department of Public Works: Ministry of Infrastructure, Transport, Housing and Public Works (MoTIHUD), Nov 2015-March 2017.*
- *Principle Secretary (PS), State Department of Transport: Ministry of Infrastructure, Transport, Housing and Public Works (MoTIHUD), March 2017-July 2018.*
- *Principle Secretary (PS), State Department of Public Works: Ministry of Infrastructure, Transport, Housing and Public Works (MoTIHUD), July 2018-September 2019.*
- *Principle Secretary (PS), State Department of Infrastructure: Ministry of Infrastructure, Transport, Housing and Public Works (MoTIHUD), September 2019-November 2022.*
- *2023 to date, Adjunct Professor of Architecture and Planning, Department of Architecture, School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology (JKUA).*

1.1.4 Achievements

- *Overhaul & modernization of Supplies Branch, Completion of over 200 stalled projects, a range of government buildings hospitals (like Othaya level 5) and health centers as well as District HQs, Introduction of skills upgrading programmes in the National Construction Authority (NCA) for the construction industry, Blue print for the Contractors Retention Fund; Chair various Sub-Committees of the National Development Implementation Technical Committee (NDITC) on Projects Implementation, Liwatoni Fishing Port Review, Kipevu Oil Terminal (KOT) implementation review & Commissioning; Delivery of LAPSSET Lamu Port and the supporting roads such as the Lamu-Garsen and Garsen-Madogo roads, Mombasa-Kilindini CT1 & initiation of CT2, Shimoni & Mokoye jetties and diverse sea walls, Several fish landing sites in the coast (Lamu, Tana River, Kilifi, Mombasa and Kwale) and the Lake Victoria, Ukunda & Lamu Airstrips, MV Jambo ferry, Phase 1A & B of the Standard Gauge Railway (SGR), operationalization of Nairobi Metropolitan Area Transport Authority (NaMATA); Delivery of the Nairobi Expressway, Western bypass, Dualled Eastern Bypass, Athi River-Machakos Turn-off dualling, James Gichuru-Ironi Dualling, Makupa bridge, Mombasa Port Area Development roads (MPARD 1, 2 & 3, Dualling of Kenol-Sagana-Marua, Lamu-Ijara-Garissa, Sirare Corridor (Isebania-Kisii/Migori-Kakamega-lodwar-Nakadok, Low Volume Seal roads 10,000 (intercountry roads) and urban roads in all 47 counties.*
- *TVET Experience in 2011 March to date as Senior expert, Project Management and Planning - Workforce Development Authority (WDA), Kigali Rwanda leading Institutional development, cooperate strategic planning (up to annual action planning, unit work planning, regular reporting – M & E, project & investment business plans) of WDA and TVET, coordinating the SDP, AGI World Bank funded projects, The HMI-Les Roches project, and others in their pre-effectiveness preparation, strategic advise during their implementation (design of offer & CBA + ToT upgrading of training standards for hotel based IBT offer, construction management guidance); Holistic strategic & implementation guidance of TVET expansion and reform including comprehensive organisational structural review of the entire national TVET system.*
- *TVET Experience in 2009-2011 as a Technical Expert & Master Trainer in Building Construction, an Infrastructural Planning & Development Expert; also as an Associate Project Team Leader for the Singapore Corporation Enterprise (SCE) & the Workforce Development Authority (WDA) of Rwanda, and as a Consultant advising DACUM founded Competency-based Demand-driven Curriculum Development, Implementation, Examination & Certification with guidance on the TVET Qualification Framework, Quality Assurance and Accreditation and Training of Trainers; and design support for & coordination of WDA inputs into the World Bank funded Skills Development Project.*
- *Expatriate University administration experience in 2007-2009 as Acting Vice Rector Academics (Deputy Vice Chancellor Academics), and as an Associate Professor of Architecture & Planning – guiding learning, research & quality assurance, while setting up the Faculty of Architecture and Environmental Design (FAED) at the Kigali Institute of Science and Technology (KIST).*

- *Local University Experience in 1992-2006 as a Head of department, Examinations officer, Convener research & syllabus committee, Year Master and Course Tutor in Theory subjects and portfolio and also as a supervisor and examiner for undergraduate and postgraduates in the Jomo Kenyatta University of Agriculture and Technology. Set up the School of Architecture and Building Sciences (SABS) at the Jomo Kenyatta University of Agriculture and Technology (JKUAT) and also started its first Master of Science in Urban Design.*
- *Publishing experience as Editor-in-Chief, Journal of Inquiry in Design Pedagogy (JIDEP), Journal of Environmental Planning and Architecture (JEPA); and as Associate Editor, African Journal of Design & Construction (AJDC); Referee for three international peer-reviewed journals.*
- *Professional Experience in 1986-89 & 1991-92 as an Expatriate Assistant Architect/Planner (Projects Architect) with Ramani Consultants in the Kingdom of Swaziland; Local Assistant Architect with Githunguri & Collins International in Nairobi, Kenya, Local Assistant Architect with the Ministry of Public Works in Nairobi Provincial Offices, Kenya.*
- *Accreditation experience in 2000-2006 as a professional resource person with the Commission for Higher Education (CHE) in charge of Architecture and planning standards for universities & post-secondary institutional accreditation in Kenya.*

1.2 Publications

1.2.1 Referred Journals

- Kitulu, Loise; Muketha, Silas & Maringa, Mwangi. 2026. Suitability analysis of stormwater harvesting for rural water supply in the Mua Hills Settlement, Machakos County, Kenya. *SABS Journal of Environment, Space and Society - SJESS Policy briefs, Vol. I, January-March 2026*. <https://sjess.jkuat.ac.ke/index.php/sjess>
- Ranote, Rosebell Akinyi, Kirongon, Beatrice & Maringa, Paul Mwangi. 2026. Enhancing energy efficiency through natural ventilation in Nairobi's commercial buildings. *Innovare Journal of Social Sciences, Vol 14 Issue 1 2026 (Jan-Feb)*, doi: [10.22159/ijss.2026v14i1.56731](https://doi.org/10.22159/ijss.2026v14i1.56731), <https://journals.innovareacademics.in/index.php/ijss/issue/view/999>.
- Ego, Rachel Jebet, Mirera, Raphael & Maringa, Paul Mwangi. 2026. Retrofitting glazed building envelopes for enhanced thermal comfort (a case of Nairobi CBD). *Innovare Journal of Social Sciences, Vol 14 Issue 1 (Jan-Feb)*, doi: [10.22159/ijss.2026v14i1.56836](https://doi.org/10.22159/ijss.2026v14i1.56836) , <https://journals.innovareacademics.in/index.php/ijss/issue/view/999>.
- Muchira, Christabell Nyambura, Ochieng, James Shikuku & Maringa, Paul Mwangi. 2025. Influence of Spatial Characteristics of Former Industrial Buildings on Their Adaptability for Recreational Uses in Kenya. *International Journal of Advanced Engineering and Management Research. Vol. 10. Issue 05, October 2025*. <http://dx.doi.org/10.51505/ijaemr.2025.1413>.
- Musa, Ian & Maringa, Paul Mwangi. 2025. Influence of Transitional Spaces on the Aesthetics of Built Form - A Case of Destination Shopping Malls in Nairobi. *International Journal of Advanced Engineering and Management Research. Vol. 10. Issue 05, October 2025*. <http://dx.doi.org/10.51505/ijaemr.2025.1414>.
- Maringa, Leah Wamuyu & Maringa, Paul Mwangi. 2025. Structured Pre-emptiveness of E-Hotels for Improved Performance. *International Journal of Advanced Engineering and Management Research. Vol. 10. Issue 3, May 2025*. <https://ijaemr.com/currentissue.ijaemr.com/lijk/711>. Doi: <http://dx.doi.org/10.51505/ijaemr.2025.1205>
- Thuku, Margaret Wachera & Maringa, Paul Mwangi. 2025. The Influence of Social Values and Aspirations on Architectural Design – Expressing the Struggle for Freedom and Democracy in Kenyan Architecture. *International Journal of Advanced Engineering and Management Research. Vol. 10. Issue 3, May 2025*. <https://ijaemr.com/currentissue.ijaemr.com/link/712>. Doi: <https://dx.doi.org/10.51505/ijaemr.2025.1206>.
- Njuguna, Michael Macharia & Maringa, Mwangi. 2025. Influence of Design on the Adaptability of Buildings: A case of the City of Nairobi, Kenya. *Innovare Journal of Social Sciences, Vol. 13, Issue 3, 2025 (May-June)*. <https://journals.innovareacademics.in/index.php/ijss/issue/view/949>. [10.22159/ijss.2025v13i3.53571](https://doi.org/10.22159/ijss.2025v13i3.53571).

- Kitulu, Loise; Muketha, Silas & Maringa, Mwangi. 2025. *Analysis of the Water Supply and Demand Balance at the Mua Hills Settlement, Machakos County, Kenya*. *International Journal of Advanced Engineering and Management Research* Vol. 10, No. 01; 17th February 2025, pp., 139-174. ISSN: 2456-3676. doi.org/10.51505/ijaemr.2025.1009. URL:<http://dx.doi.org/10.51505/ijaemr.2025.1009>
- Kitulu, Loise; Muketha, Silas & Maringa, Mwangi. 2025. *Stormwater harvesting for sustainable rural water supply, Mua hills settlement, Machakos county, Kenya*. *Innovare Journal of Social Sciences*, 13(1), 38–49. <https://doi.org/10.22159/ijss.2025v13i1.53169>. ISSN - 2347-5544, <https://journals.innovareacademics.in/index.php/ijss/issue/view/917>.
- Gatamu, Karen Nyawira & Maringa, Paul Mwangi. 2024. *The interplay of user needs, architectural design and form of libraries*. *International Journal of Advanced Engineering and Management Research (IJAEMR)*, Vol. 9, No. 06; 6th December 2024, pp., 64-109. ISSN: 2456-3676. doi.org/10.51505/ijaemr.2024.9607. URL: <http://dx.doi.org/10.51505/ijaemr.2024.9607>.
- Maringa, Paul Mwangi and Maringa, Maina. 2023. *Employability & Industrial Links for Rwandan TVET in Ecole Technique Officiels (ETOs) and Agroveterinaires (EAVEs)*. TVET JOURNAL- 2023-09-21 by Guestpost, <https://tvetjournal.com/tvet-systems/employability-industrial-links-for-rwanda-tvet-in-ecole-technique-officiels-etos-and-agroveterinaires-eaves/>
- Maringa, Maina and Maringa, Paul Mwangi. 2015. *Quality assurance systems of Rwandan TVET: Training Standards Anchors in Ecole technique Officiels and Agroveterinaires*. *The African Journal of Technical and Vocational Education Training (AfriTVET)*, Vol 2.No.1, 2015). <http://www.fimen.net/AfriTVETHompage.html>
- Maringa, Maina and Maringa, Paul Mwangi. 2015. *Effectiveness of Rwandan TVET: Trainer Competence and Motivation in the Ecole Technique Officiel (ETOs) and Ecole Agroveterinaire (EAVS)*. *The African Journal of Technical and Vocational Education Training (AfriTVET)*, Vol 2.No.1. 2015). <http://www.fimen.net/AfriTVETHompage.html>
- Maringa, Leah Wamuyu Kagumba and Maringa, Paul Mwangi. 2013. *Improving Performance of Human Resource Systems in e-hotels*. *Journal of Inquiry in Design Pedagogy (JIDEP)*, December 2013. <http://www.urbanalgorithms.net>, <http://www.fimen.net/AfriTVETHompage.html>
- Maringa, Leah Wamuyu Kagumba and Maringa, Paul Mwangi. 2013. *Primary Activity Efficiency of the Work Process in ICT based E-Hotels*. *Journal of Inquiry in Design Pedagogy (JIDEP)*, December 2013. <http://www.urbanalgorithms.net>, <http://www.fimen.net/AfriTVETHompage.html>
- Maringa, Paul Mwangi and Maringa, Maina. 2013. *Quality of TVET in Rwanda in relation to age, ownership, location and specialisation factors of access and equal opportunity in Ecole Technique Officiels (ETOs) and Agroveterinaires (EAVEs)*. Volume 15, number 2, 2013 of the *Global Journal of Engineering Education (GJEE)*.
- Maringa, Paul Mwangi and Maringa, Maina. 2013. *Quality of TVET in Rwanda with respect to gender and enrolment factors of access and equal opportunity in Ecole Technique Officiels (ETOs) and Agroveterinaires (EAVEs)*. Volume 15, number 3, 2013 of the *Global Journal of Engineering Education (GJEE)*.
- Maringa, Maina and Maringa, Paul Mwangi. 2013. *Setting Up a Model College of Technology in Kigali City: The Kicukiro College of Technology (COT)*. *Journal of Inquiry in Design Pedagogy (JIDEP)*, Vol. 1, No. 1, June 2013). <http://www.urbanalgorithms.net>, <http://www.fimen.net/AfriTVETHompage.html>.
- Maringa, Maina and Maringa, Paul Mwangi. 2011. *A Quality Indicator Guided Review of TVET in Selected Ecole Technique Officiel (ETOs) and Ecole Agroveterinaire (EAVS) in Rwanda*. *The African Journal of Technical and Vocational Education Training*. *AfriTVET*, Vol. 1 No. 1, April 2011. <http://www.fimen.net/AfriTVETHompage.html>.
- Maringa, Leah Wamuyu Kagumba and Maringa, Paul Mwangi. 2011. *Gaining Competitive Advantage in Hotels Through the Application of Information Technology: A case of 2 – 5 star rated hotels in Kenya*. *East African Journal of Information Science (EAJIS)*, Volume 3.1, 2011. Department of Information Science, Moi University, Eldoret, Kenya, <http://www.mu.ac.ke/academic/schools/is/journal/eajis.html>, <http://www.mu.ac.ke/academic/schools/is/eajis.html>.

- Kimungu, Samuel Irungu and Maringa, Paul Mwangi. 2010. *Considerations for Containing Employee Turnover in Kenyan hotels*. *Journal of Environmental Planning and Architecture (JEPA)*, June 2010. <http://www.urbanalgorisms.net>, <http://www.fimen.net/AfriTVETbompage.html>
- Maringa, Maina and Maringa, Paul Mwangi. 2010. *Improvement of Technical Education in Public Technical Secondary Schools (Ecole Technique Officiel - ETOs) in Rwanda*. *Journal of Technical Education and Training (JTET)*, Vol. 2, Issue 1, June 2010. <http://penerbit.uthm.edu.my/ejournal/index.php/journal/jtet/79>.
- Maringa, Leah Wamuyu Kagumba and Maringa, Paul Mwangi. 2009. *Performance Enhancement of the Catering Information Systems in E-Hotels through ICT Interventions* *Africa Habitat Review (AHR)* vol. 3 No. 3, [October 2009], pp., 189 – 199, *Journal of the School of the Built Environment, University of Nairobi*.
- Naicca, Christopher Matseshe and Maringa, Paul Mwangi. 2008. *The Influence of the Built Environment on Human Behaviour: Rehabilitation of Deviants in Correctional Facilities in Kenya*. *Africa Habitat Review (AHR)* vol. 2 No. 2, [June 2008], pp., 111 – 130, *Journal of the School of the Built Environment, University of Nairobi*.
- Kweya, Munala Gerryshom, Moirongo, Bernard Otoki and Maringa, Paul Mwangi. 2006. *Factors for Effective Conservation and Management of Historic Buildings*. *African Journal of Design and Construction (AJDC)*, Vol. 1 (1), 2006, pp., 8 – 20. <http://www.urbanalgorisms.net>, <http://www.fimen.net/AfriTVETbompage.html>
- Ochieng, Philip Okello and Maringa, Paul Mwangi. 2006. *The Relationship between Imageability and Form in Architecture: Considerations for the Design of Imageable Landmark Buildings in Cities*. *African Journal of Design and Construction (AJDC)*, Vol. 1 (1), 2006, pp., 1 – 7. <http://www.urbanalgorisms.net>, <http://www.fimen.net/AfriTVETbompage.html>

Research working/technical papers.

- Maringa, Paul Mwangi. 1994. *Theory of Urban Land Market as a Tool for Determining Activity Relocation in Urban Areas – Focus on Nairobi City, Kenya*.
- Maringa, Paul Mwangi. 1994. *Retail Market Potentials and their Influence on Consumer Expenditure Flows in Urban Systems – Focus on Nairobi City, Kenya*.
- Maringa, Paul Mwangi. 1994. *The Gravity-Spatial Interaction Model as a Measure of Business Interaction Levels, and its Application in Urban Growth Management – Focus on Nairobi City, Kenya*.
- Maringa, Paul Mwangi. 1994. *Multipurpose Shopping and the Locational Patterns of Retail Investments in an Urban Fabric – Focus on Nairobi City, Kenya*.
- Maringa, Paul Mwangi. 1994. *Consumer Behavioural Patterns in the face of Competing and Differential Shopping Opportunities – Focus on Nairobi City, Kenya*.

1.2.2 University Level Scholarly Books

Research based book monographs published

- Maringa, Paul Mwangi and Naica, Christopher Matseshe. 2023. *Behavioural Cues for Apposite Space Design*. 14th February 2023. ISBN-10: ; ISBN-13: 979-8374845693; CreateSpace Independent Publishing Platform: https://www.amazon.com/Behavioural-Cues-Apposite-Space-Design/dp/B0BW2SDJMK/ref=sr_1_1?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-1
- Maringa, Paul Mwangi. 2023. *Nature and Configuration of the Urban Social Function: Socio-Spatial Variation in the Urban Social Function*. 15th March 2023. ISBN-10: ; ISBN-13: 979-8387129193; CreateSpace Independent Publishing Platform:

- https://www.amazon.com/Nature-Configuration-Urban-Social-Function/dp/B0BZ32D6DR/ref=sr_1_4?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-4
- Maringa, Paul Mwangi. 2023. *Nature and Configuration of the Urban Social Function: Socio-Spatial Segregation of the Urban Social Function*. 7th May 2023. ISBN-10: ; ISBN-13: 979-8393468644; CreateSpace Independent Publishing Platform: https://www.amazon.com/Nature-Configuration-Urban-Social-Function/dp/B0C4MV/SJ2F/ref=sr_1_3?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-3
 - Maringa, Paul Mwangi. 2023. *Nature and Configuration of the Urban Social Function: Modelling the Internal Relationships of the Urban Social Function*. 5th June 2023. ISBN-10: ; ISBN-13: 979-8394293221; CreateSpace Independent Publishing Platform: https://www.amazon.com/NATURE-CONFIGURATION-URBAN-SOCIAL-FUNCTION/dp/B0C6WBCW/QT/ref=sr_1_2?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-2
 - Maringa, Paul Mwangi. 2015. *Reliability and Validity Measures of Survey Instruments*. 7th March 2015. ISBN-10: 1508777616; ISBN-13: 978-1508777616; CreateSpace Independent Publishing Platform: https://www.amazon.com/Reliability-Validity-Measures-Survey-Instruments/dp/1508777616/ref=sr_1_6?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-6
 - Maringa, Paul Mwangi. 2015. *Illustrated use of Normality Data Tests and the Factor Analysis Model*. 25th March 2015. ISBN-10: 1511568542; ISBN-13: 978-1511568542; CreateSpace Independent Publishing Platform: https://www.amazon.com/Illustrated-Normality-Tests-Factor-Analysis/dp/1511568542/ref=sr_1_5?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-5
 - Maringa, Paul Mwangi. 2014. *Sampling Guide for the City of Nairobi*. March 24, 2014. ISBN-10: 1497436362; ISBN-13: 978-1497436362, CreateSpace Independent Publishing Platform: https://www.amazon.com/Sampling-guide-Nairobi-Mwangi-Maringa/dp/1497436362/ref=sr_1_9?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-9
 - Maringa, Paul Mwangi. 2014. *Genesis of the Spatially Segregated Urban Social Function of the City of Nairobi*. June 07, 2014. ISBN-10: 1500123862 ; ISBN-13: 978-1500123862, CreateSpace Independent Publishing Platform: https://www.amazon.com/Genesis-Spatially-Segregated-Function-Nairobi/dp/1500123862/ref=sr_1_8?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-8
 - Maringa, Paul Mwangi. 2014. *Notional Introspections for a Sustainable Urban Ecology*. 16th September 2014. ISBN-10: 1502397757; ISBN-13: 978-1502397757, CreateSpace Independent Publishing Platform: https://www.amazon.com/Notional-Introspections-Sustainable-Urban-Ecology/dp/1502397757/ref=sr_1_7?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-7
 - Maringa, Paul Mwangi and Ochieng, Philip Okello. 2012. *Didactic Design of Imageable Architecture*. September 18, 2012. ISBN-10: 1479309702; ISBN-13: 978-1479309702 – CreateSpace Independent Publishing Platform: https://www.amazon.com/Didactic-Design-Imageable-Architecture-Maringa/dp/1479309702/ref=sr_1_11?qid=1687165050&refinements=p_27%3AProf+Paul+Mwangi+Maringa&s=books&sr=1-11
 - Maringa, Paul Mwangi and Maringa, Leah Wamuyu. 2012. *ICT Enhanced E-Hotels vol.1 - ICT Enhanced Hotel Catering Information Systems*. October 1, 2012. ISBN-10: 14780030985; ISBN-13: 978-114780030985, CreateSpace Independent Publishing Platform: <https://www.amazon.com/ICT-Enhanced-Hotels-vol-1>

1.2.3 Patented Invention or Innovations

- *None.*

1.2.4 Tertiary Level Scholarly Books

- *Reference the 11 research book monographs above in section 1.2.2 and the book chapters below in section 1.2.5.*

1.2.5 Book Chapters

- Kitulu, Loise; Muketha, Silas & Maringa, Mwangi. 2026. *Factors affecting stormwater harvesting in rural water supply: A case of Mua Hills Settlement, Machakos County, Kenya.* Innovare Academics Pvt Ltd., *Sustainable Development Solutions for the Built Environment – Emerging Knowledge Systems. Innovare Academics Sciences (IAS) Dialogue – Education and Practice in Environmental Planning and Design Series. Chapter 2, pp., 14-32*, <https://dx.doi.org/10.22159/SDS.c2>; <https://innovareacademics.in/books>.
- Weke, Steve & Maringa, Paul Mwangi. 2025. *Influence of the Physical Environment on the Behavior of Juvenile Delinquents.* Innovare Academics Pvt Ltd., *Blueprint for Tomorrow: Bridging Architecture, Ecology and Learning. Chapter 1, pp., 1-43*, Innovare Academic Sciences Pvt Ltd. DOI: <https://dx.doi.org/10.22159.BTB.c1>
- Maganga, Joy Awino & Maringa, Paul Mwangi. 2025. *Perception and Spatial Quality of the Built Environment - The character of Spaces in Urban Recycling Facilities, Nairobi City County, Kenya.* Innovare Academics Pvt Ltd., *Blueprint for Tomorrow: Bridging Architecture, Ecology and Learning. Chapter 8, pp., 137-173*, Innovare Academic Sciences Pvt Ltd. DOI: <https://dx.doi.org/10.22159/BTD.c8>
- Maringa, Paul Mwangi. 2024. *An Empirical Urban Study Research Methodology for Determining the Influence of Social Cohesion on the Quality of the Urban Environment: A Case of the City of Nairobi, Kenya.* Education Through the Ages: Past Foundations to Future Horizons. Vol 1. Chapter 1, pp., 1-25, Innovare Academic Sciences Pvt Ltd. DOI: <https://dx.doi.org/10.22159/ETA.c1>
- Ouma, Cindy Crawford, Ochieng, Martin Mbidhi and Maringa, Paul Mwangi. 2024. *The Role of Cultural Identity in Place-Making: A Case of Cultural Centers in Kisumu City.* Education Through the Ages: Past Foundations to Future Horizons. Vol 1. Chapter 3, pp., 26-67, Innovare Academic Sciences Pvt Ltd. DOI: <https://dx.doi.org/10.22159/ETA.c3>
- Maringa, Paul Mwangi and Maringa, Maina. 2024. *A Review of the Physical Infrastructure & Equipment Quality Indicator of Ecole Technique Officiels (ETOs) and Ecole Agrovétérinaire (EAVS) in the Rwandan TVET System.* Education Development: Bridging Past, Present, and Future. Vol 1. Chapter 11, pp., 111-138. Innovare Academic Sciences Pvt Ltd. DOI: <https://dx.doi.org/10.22159/ED.c11>
- Maringa, Paul Mwangi and Maringa, Maina. 2024. *Contextual Demographics of Ecole Technique Officiels (ETOs) and Ecole Agrovétérinaires (EAVEs) in the Rwandan TVET System.* Education Development: Bridging Past, Present, and Future. Vol 1. Chapter 12, pp., 111-138. Innovare Academic Sciences Pvt Ltd. DOI: <https://dx.doi.org/10.22159/ED.c12>

1.2.6 Refereed Learning Modules

- *All learning Modules in the Master of Urban Design at the Department of Architecture, School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya. These include, theory and principals of urban design I & II, physical planning, urban design I & II, environmental planning and research methodology. This is a programme designed for architects, urban designers urban and regional planners and landscape architects who desire to consolidate their theoretical knowledge in the Urban Design discipline with their practical application in the field. The programme therefore lays emphasis on urban communities' facilities planning, urban land use and transportation planning, urban form and expression. It equips learners with competencies to carry out independent research and scholarly ventures*

that resolve contemporary urban issues and challenges with sensitivity to prevailing socio-cultural, econo-political realities of a sustainable system of urban environmental development.

1.2.7 Reviewed Conference Papers

- *Habanyu, Stephanie Wambui & Maringa, Paul Mwangi. 2026. Impact of building design & technologies on environmental sustainability in Nairobi's performing arts centres. Abstract accepted in the 20th JKUAT Scientific, Technological and Industrialisation Conference 19th-20th March 2026.*
- *Mbingo, Vincent Musili. 2026. Placemaking design strategies for public social spaces in Nairobi streets. Abstract accepted in the 20th JKUAT Scientific, Technological and Industrialisation Conference 19th-20th March 2026.*
- *Njagi, Theresa Kathambi. 2026. Perception of place and its influence on human behaviour - A case of drug rehabilitation centres in Nairobi city county, Kenya. Abstract accepted in the 20th JKUAT Scientific, Technological and Industrialisation Conference 19th-20th March 2026.*
- *Onita, Kemunto Nyaboke. 2026. Influence of spatial design on human perception and behaviour Nairobi's mental wellness centres. Abstract accepted in the 20th JKUAT Scientific, Technological and Industrialisation Conference 19th-20th March 2026.*
- *Muchira, Christabell Nyambura; Ochieng, James Shikuku; Maringa, Paul Mwangi. 2025. Influence of spatial characteristics of former industrial buildings on their adaptability for recreational uses in Kenya. 12th annual East African Architecture workshop and exhibition: Understanding the concept of sustainability in the built environment today, 27th – 28th August 2025. Department of Architecture, Faculty of the Built Environment and Design, University of Nairobi, Nairobi, Kenya.*
- *Musa, Ian & Maringa, Paul Mwangi. 2025. Influence of transitional spaces on the aesthetics of built form - A case of destination shopping malls in Nairobi. 12th annual East African Architecture workshop and exhibition: Understanding the concept of sustainability in the built environment today, 27th – 28th August 2025. Department of Architecture, Faculty of the Built Environment and Design, University of Nairobi, Nairobi, Kenya.*
- *Ranote, Rosebell Akinyi; Kironгон, Beatrice; Maringa, Paul Mwangi. 2025. Enhancing energy efficiency through natural ventilation in Nairobi's commercial buildings. 12th annual East African Architecture workshop and exhibition: Understanding the concept of sustainability in the built environment today, 27th – 28th August 2025. Department of Architecture, Faculty of the Built Environment and Design, University of Nairobi, Nairobi, Kenya.*
- *Ego, Rachel Jebet; Mirera, Raphael; Maringa, Paul Mwangi. 2025. Retrofitting glazed building envelopes for enhanced thermal comfort (a case of Nairobi CBD). 12th annual East African Architecture workshop and exhibition: Understanding the concept of sustainability in the built environment today, 27th – 28th August 2025. Department of Architecture, Faculty of the Built Environment and Design, University of Nairobi, Nairobi, Kenya.*
- *Kitulu, Loise; Muketha Silas; Maringa, Mwangi. 2024. Stormwater harvesting for sustainable rural water supply – a case of the Mua hills settlement, Machakos County, Kenya. 3rd Annual Urban and Regional Planning Conference (URPC- III): Planning for Resilient Cities in Africa. Department of Urban and Regional Planning (DURP), Faculty of the Built Environment and Design (FABED), University of Nairobi (UoN), Nairobi, Kenya.*
- *Ouma, Cindy Cranford; Mbidhi, Martin Ochieng; Maringa, Paul Mwangi. 2024. The role of cultural identity in place-making: a case of cultural centers in Kisumu city. 11th annual East African Architecture Workshop and Exhibition: Climate responsive architecture and urbanism – harnessing design solutions for climate change mitigation, 26th – 30th October 2024. Department of Architecture, Faculty of the Built Environment and Design, University of Nairobi, Nairobi, Kenya.*
- *Njuguna, Michael Macharia & Maringa, Paul Mwangi. 2024. Influence of design on the adaptability of buildings: a case of the city of Nairobi, Kenya. 11th annual East African Architecture Workshop and Exhibition: Climate responsive architecture and urbanism –*

barnessing design solutions for climate change mitigation, 26th – 30th October 2024. Department of Architecture, Faculty of the Built Environment and Design, University of Nairobi, Nairobi, Kenya.

- Gatamu, Karen Nyanvira & Maringa, Paul Mwangi. 2024. *The interplay of user needs and the architectural design and form of libraries. 11th annual East African Architecture Workshop and Exhibition Climate responsive architecture and urbanism – harnessing design solutions for climate change mitigation, 26th – 30th October 2024. Department of Architecture, Faculty of the Built Environment and Design, University of Nairobi, Nairobi, Kenya.*
- Maringa, Maina and Maringa, Paul Mwangi. 2012. *Setting Up a Model College of Technology in Kigali City: Converting the Former Ecole Technique Officiel (ETO) Kicukiro into a College of Technology (COT). International Conference on TVET Institutions As A Platform For Industrial Development In Africa, The Commonwealth Association Of Polytechnics In African (Capa), 29th April To 4th May 2012, Mombasa, Kenya.*
- Maringa, Leah Wamuyu Kagumba and Maringa, Paul Mwangi. 2010. *ICT Driven synergy Integration in the Operations of e-hotels for Improved Performance. The International Research Symposium in Service Management of August 24th -27th 2010, University of Mauritius. Paper abstract accepted on 26th May 2010.*
- Kimungu, Samuel Irungu and Maringa, Paul Mwangi. 2010. *Assessment of the Impact of Employee Turnover in Customer Service and Competitiveness of an Establishment. The International Research Symposium in Service Management of August 24th -27th 2010, University of Mauritius. Paper abstract accepted on 26th May 2010. Full refereed paper presented in the conference of 18th to 20th November 2010.*
- Kimungu, Samuel Irungu and Maringa, Paul Mwangi. 2009. *Considerations for Containing Employee Turnover in Kenyan hotels. The 2nd annual Association of Hospitality Schools in Africa (AHSA) conference on Hospitality and Tourism. Mafikeng hotel school, South Africa. Paper abstract submitted on 02072009 and accepted for presentation. Full refereed paper presented in the conference of 18th to 20th November 2009.*
- Maringa, Leah Wamuyu Kagumba and Maringa, Paul Mwangi. 2009. *Improving performance of human resource systems in e-hotels. The 2nd annual Association of Hospitality Schools in Africa (AHSA) conference on Hospitality and Tourism. Mafikeng hotel school, South Africa Paper. Paper abstract submitted on 02072009 and accepted for presentation; Full refereed paper presented in the conference of 18th to 20th November 2009.*
- Maringa, Leah Wamuyu Kagumba and Maringa, Paul Mwangi. 2007. *Gaining Competitive Advantage in Hotels Through the Application of Information Technology: A case of 2 – 5 star rated hotels in Kenya. The Association of Third World Studies (ATWS) Conference at the Catholic University of Eastern Africa of 16th-18th of May (2007); theme: Rethinking African Heritage, University Education and Technological Advancement in the 21st Century.*
- Maringa, Leah Wamuyu Kagumba and Maringa, Paul Mwangi. 2007. *Primary Activity Efficiency of the Work Process in ICT based E-Hotels. The 3rd Annual International Conference (Knowledge Management through Research and Innovative Technologies for Sustainable Socio-Economic Development) of Moi University of July/August (2007).*
- Maringa, Paul Mwangi et.al. 2007. *Evaluating Ecotourism Landscapes in the East African Region: A case of a Tourist Circuit in Kenya, Uganda, and Rwanda. The VicRes Grant Competition Team Building & Harmonisation workshop, of April 1st to 7th (2007), Jinja, Uganda.*
- Maringa, Paul Mwangi. 1994. *Theory of Urban Land Market as a tool for determining activity relocation in urban areas – focus on Nairobi City, Kenya. The Kenyan National Seminar on Architecture and Planning in the 21st Century – the challenge of our times seminar; theme: rural urban environmental development, 24th / 25th November 1994, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*

1.2.8 Secondary School Level Textbooks

- *None*

1.2.9 Short Communication in Journals

Policy briefs published

- Muchira, Christabell Nyambura, Ochieng, James Shikuku & Maringa, Paul Mwangi. 2025. *Influence of Spatial Characteristics of Former Industrial Buildings on Their Adaptability for Recreational Uses in Kenya*. *SABS Journal of Environment, Space and Society (SJESS) – Policy Briefs*, January-March 2026 Issue, pp., 1-7. <https://sjess.jkuat.ac.ke/index.php/sjess>
- Kitulu, Loise Nduku; Muketha, Silas Mwititi; and Maringa, Paul Mwangi. 2024. *Stormwater Harvesting for Sustainable Rural Water Supply – A Case of the Mua Hills Settlement, Machakos County, Kenya*. *SABS Journal of Environment, Space and Society (SJESS) – Policy Briefs*, January-March 2026 Issue, pp., 14-19. <https://sjess.jkuat.ac.ke/index.php/sjess>
- Ouma, Cindy Crawford; Mbidhi, Martin Ochieng; and Maringa, Paul Mwangi. 2025. *The role of Cultural Identity in Placemaking – A case of Cultural Centres in Kisumu City*. *SABS Journal of Environment, Space and Society (SJESS) – Policy Briefs*, January-March 2026 Issue, pp., 26-31. <https://sjess.jkuat.ac.ke/index.php/sjess>
- Ranote, Rosebell Akinyi, Kirongon, Beatrice & Maringa, Paul Mwangi. 2025. *Enhancing energy efficiency through natural ventilation in Nairobi's commercial buildings*. *SABS Journal of Environment, Space and Society (SJESS) – Policy Briefs*, January-March 2026 Issue, pp., 39-45. <https://sjess.jkuat.ac.ke/index.php/sjess>
- Ego, Rachel Jebet, Mirera, Raphael & Maringa, Paul Mwangi. 2025. *Retrofitting glazed building envelopes for enhanced thermal comfort (a case of Nairobi CBD)*. *SABS Journal of Environment, Space and Society (SJESS) – Policy Briefs*, January-March 2026 Issue, pp., 46-51. <https://sjess.jkuat.ac.ke/index.php/sjess>
- Musa, Ian & Maringa, Paul Mwangi. 2025. *Influence of Transitional Spaces on the Aesthetics of Built Form - A Case of Destination Shopping Malls in Nairobi*. *SABS Journal of Environment, Space and Society (SJESS) – Policy Briefs*, January-March 2026 Issue, pp., 58-63. <https://sjess.jkuat.ac.ke/index.php/sjess>
- Gatamu, Karen Nyawira and Maringa, Paul Mwangi. 2024. *Architectural Design Forms of User Oriented of Libraries*. *SABS Journal of Environment, Space and Society (SJESS) – Policy Briefs*, January-March 2026 Issue, pp., 69-74. <https://sjess.jkuat.ac.ke/index.php/sjess>
- Naicca, Christopher Matseshe and Maringa, Paul Mwangi. 2024. *Rehabilitation of Offenders in Kenyan Correctional Facilities and the Built Environment*. PB-2024-01-02 Policy Brief, Volume 2024, Vol. 1 (1), December 2024, pp., 5-8. <https://nonresearch.uonbi.ac.ke/basic-page/policy-briefs>

1.2.10 Consultancy and Project Reports (policy development and institutional growth)

- Maringa, Paul Mwangi. August 2012. *Business Plan for the Integrated Polytechnic Regional Centre – South*.
- Barigye, Sam and Maringa, Paul Mwangi. June 2012. *Business Plan for the Kigali International School of Hotel Management*.
- Maringa, Paul Mwangi. July 2012. *Business Plan for the Kigali International School of Hotel Management*.
- Maina Maringa (Bsc/M.Sc Mech Eng, PhD, CEng & MIMechE), Paul Mwangi Maringa (B.Arch. Hons, M.A Planning, Ph.D, m.a.a.k, m.k.i.p, reg., Arch), January 27th, 2011, “Proposal for Interventions in Kenyan TIVET”, Ministry of Higher Education Science and Technology (MOHEST), Kenya, January 16th, 2011, in Ministry Boardroom.
- Mushule, Nurdin; Smith; Akenga, Teresa; Maringa, Paul Mwangi and Rubamya, Colettha. 2008. *Internal Academic Audit report on the Kigali Institute of Science and Technology (KIST) for accreditation of the University by the Rwandan Commission for Higher Education, Kigali, Rwanda*.

- Maringa, Paul Mwangi. March 2007-December 2008. *Project proposal on the School of Environmental Planning and Design - SEPAD/Faculty of Architecture and Environmental Design – FAED; for funding by the African Development Bank (AfDB) and for Cabinet approval. Cabinet approval accorded on 8th December 2008. Proposal successfully attracted 10m \$USD.*
- Mushule, Nurdin Maringa, Mwangi and Rusine, Jean Batiste. 2007. *Senate ad-hoc committee report on ideal University arrangements and requirements for effective academic staff performance, Kigali Institute of Science and Technology (KIST), Kigali, Rwanda.*
- Maringa, Maina & Maringa, Paul Mwangi, (researchers & editors); Mfinanga, Joseph & Kairanga, Theogene. November 2008. *Strategic Plan for the Technical Education in Rwanda for the Years 2008 – 2012 inclusive.*
- Maringa, Maina & Maringa, Paul Mwangi, (researchers & editors); Mfinanga, Joseph & Kairanga, Theogene. November 2008. *A 4 year Technical Education Strategic Plan for Rwanda. Rwandan Ministry of Education (MINEDUC), Kigali, Rwanda.*
- Maringa, Maina & Maringa, Paul Mwangi, (researchers & editors); Mfinanga, Joseph & Kairanga, Theogene. 11th November 2007. *An Implementation Strategy for Setting up 1st Year Courses at the Proposed Kicukiro College of Technology (KCOT), in the Year 2008. Rwandan Ministry of Education (MINEDUC), Kigali, Rwanda.*
- Maringa, Maina & Maringa, Paul Mwangi, (researchers & editors); Mfinanga, Joseph & Kairanga, Theogene. 28th October 2007. *A Short Term Project for the Improvement of Technical Education in Technical Secondary Schools (ETOs) and Colleges of Technology (COTs), in Rwanda - A 5-year strategy. Rwandan Ministry of Education (MINEDUC), Kigali, Rwanda.*
- Maringa, Maina & Maringa, Paul Mwangi, (researchers & editors); Mfinanga, Joseph & Kairanga, Theogene. 20th August 2007. *A Short Term Strategy for the Improvement of Public Technical Schools (ETOs) in Rwanda - A 4-year strategy. Rwandan Ministry of Education (MINEDUC), Kigali, Rwanda.*
- *Rwandan Skills Development Project (SDP)'s Project Design of component 1: Delivery of Quality and Relevant Vocational Training at a total project cost US\$28.1 million, for the generic element of Curriculum Development, vis:*
 - Maringa, Paul Mwangi; Rutayisire, Johnson Barigye ,Sam; Rugamba, Denis; Wambete, Charles Soita; and Karamutsa, Gerald. 2010. *Coordinated design inputs in the associated elements of Assessment & Accreditation (AC), Training of Trainers (ToT), Industrial Attachment Programme (LAP), Infrastructure Planning & Development – Infrastructure, Equipment and Materials (IEM), Institutional-based Management & Development (IMD).*
 - Mukarubibi, Fatina (Ag., Deputy Director General-WDA); Nsengiyumva, Albert (Director General-WDA); Bosco, John (Project Consultant); Maringa, Paul Mwangi. 2010. *Rwandan Skills Development Project (SDP)'s component 2: TVET System Strengthening at a project cost value of US\$ 1.9million, and component 3 on: Rapid Skills Delivery at a project cost value of US\$ 5.1 million.*
 - Nsengiyumva, Albert (Director General-WDA); Maringa, Paul Mwangi; Mukarubibi, Fatina (Ag., Deputy Director General-WDA); Wambete, Charles Soita; MINECOFIN staff. 2010. *Project funding negotiation.*
 - Maringa, Paul Mwangi. 2010. *Project design with oversight of the World Bank team of Hofstijzer, Margo; Johansen, Richard; Alexi et.al.*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2009. *Year 2009 Action Plans for the Workforce Development Authority (WDA) and its respective Departments of Finance, Schools Development, Marketing and Communication, Industry Based Training, Curriculum Development, Training of Trainers, Human Resource, Labour Market Information Systems, and Procurement.*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2009. *Organisation structure for the WDA, IPRCs and the Curriculum Development unit of the WDA in 2010.*

- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2009. *Internal Organisation Structure, Terms of Reference, action plans and annual work cycles in respect of CBT and Traditional charges, for the departments of Assessment & Certification, Training of Trainers and Quality Assurance and Accreditation in 2011 Feb & March.*
- Maringa, Paul Mwangi. 2009. *Action Plan for the WDA for the 2010-12 fiscal year.*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2009. *Operations Manual for the SDP/SDF, volumes I (Background and Policy Framework), II (Quality Delivery of Vocational Training & TVET System Strengthening), III (Skills Development Fund) & IV (Finance Management, Procurement procedures and Administrative Arrangements)*, prepared under the guidance of the SDP project WB Task team leader Margo Hofstijzer, Clemens Romjin (an M & E consultant) and Guenter Schieske (Project and Financial consultant).
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2010. *Considerations for Short and long term TVET Qualification Framework for Rwanda (Basic academic structure and training delivery systems plus accreditation and quality assurance support systems).* This was an advisory report in preparation for the engagement of consultancy to develop a Rwandan TVET Qualification Framework (RTQF).
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2010. *Draft guidelines for the Establishment of 2 new Integrated Polytechnic Regional Centres (IPRCs) East (Kibungo or Ngoma) and West (Kibuye or Karongi) that entail: Technical (physical and equipment) & Institutional Evaluation (Academic staff, technical staff, administrative staff, support staff) of status quo, Operation Plan for transformation & upgrading (Illustrated building standards, Standard Equipment Lists – STELS, Building & Equipment procurement plan, Academic & Technical staff profiles, tentative organogram).*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2010. *Integration guidelines for the existing 3 IPRCs Kigali (Kicukiro Polytechnic, Muhima Technical Secondary School, Gacuriro Vocational Training Centre), North (Tumba College of Technology acting as an interim Polytechnic) and South (Kavumu Vocational Training Centre, Nyanza Vocational Training Centre to convert into a Technical Secondary School, and Gitarama Technical Secondary school to convert into a Polytechnic). Integration plan assembles a harmonised operational IPRC system guide (Training focus determination by harmonizing and sharing out priority training areas with relevance to local develop priorities and resource bases; Identification, survey and reporting on constituent campuses, organisational structure and reporting & operational procedures).*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2010. *Contextual Institutional arrangement for implementing the Rwandan TVET Qualification Framework (RTQF).*
- Maringa, Paul Mwangi. 2010. *A Harmonised DACUM methodology (DACUM harmonisation and facilitation as well as CBT training workshops planning & eventual facilitation) and reporting of resulting adaptations, revisions and upgrading.*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2010. *Integration of Rwandan National Examination Council (RNEC) examination functions into the WDA: Practical conceptualisation of TVET examinations, translation of concept into tasks, duties and essential delegation, abstraction of essential resource needs (human, physical, equipment, stationary, and finance).*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2010. *Integration of NCDC TVET Curriculum Development Functions into the WDA: Practical conceptualisation of TVET examinations, translation of concept into tasks, duties and essential delegation, abstraction of essential resource needs (human, physical, equipment, stationary, and finance).*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA). 2010. *Roll out plan for Examinations: Review of prevailing status quo on Curriculum development to identify gaps, strategy for progressive curriculum development with timelines resource allocation guidelines, validation in stakeholder workshop. Roll out plan for Curriculum Development: Review of prevailing status quo on Curriculum development to identify gaps, strategy for progressive curriculum development with timelines resource allocation guidelines, validation in stakeholder workshop.*

- *Maringa, Paul Mwangi (CoD & 6th year studio master); Samuel Kigundu (1st year studio master 1); John Wamwangi (2nd year studio master); Frederick Ngunjiri (3rd year studio master); Charles Mungai (4th year studio master); Francis Mburu (5th year Studio master); Technicians: Nyakundi, Mugambi, Kenduwa, and Waweru. 1998. Report of the Department of Architecture, School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology (JKUAT), for accreditation by the Commonwealth Association of Architects (CAA).*

1.2.11 Non - Reviewed Conference Papers

- *Maringa, Paul Mwangi. 2018. Regeneration of Kenyan Cities for The Future: A Case Study of Nairobi. 8th Annual City Development conclave, (Smart Cities & Digital Transformation), Kuala Lumpur city, Malaysia, November 14-18, 2018.*

1.2.12 Refereed Exhibitions and Performances

- *None.*

1.2.13 Other Publications

- *Maringa, Paul Mwangi. 2005. The Influence of Social Cohesion on the Quality of the Urban Environment - a case of the city of Nairobi, Kenya. Ph.D Research Thesis, Department of Architecture School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.*
- *Maringa, Paul Mwangi. 1999. Influence of Historical and Cultural Dualism of African Cities on the Management of their Growth and Development – A case of Nairobi city, Kenya. Department of Architecture, in the School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology (UoN), Nairobi, Kenya.*
- *Maringa, Paul Mwangi. 1991. Planning for a Secondary Commercial Center - An Analysis of Economic Viability (the case of Nairobi city Kenya). M.A. Planning research thesis. Department of Urban and Regional Planning (DURP), Faculty of Architecture, Design and Development (FADD), University of Nairobi (UoN), Nairobi, Kenya.*
- *Maringa, Paul Mwangi; Chepchirchir, Peris; Okoko, Justus; & Nyabuti, Jeremiah. 1991. Relocation of Wakulima Market, from the Central Business District (CBD). M.A. Planning joint research term paper. Department of Urban and Regional Planning (DURP), in the Faculty of Architecture, Design and Development (FADD), University of Nairobi (UoN), Nairobi, Kenya.*
- *Maringa, Paul Mwangi. et.al, 1991. Chogoria Urban Development project. M.A. Planning. M.A. Planning Joint research 2nd year class, 1991. Department of Urban and Regional Planning (DURP), in the Faculty of Architecture, Design and Development (FADD), University of Nairobi (UoN), Nairobi, Kenya.*
- *Maringa, Paul Mwangi. Theatre Design - Some Principal Concepts. 1986. Bachelor of Architecture Research Thesis. Department of Architecture, Faculty of Architecture Design and Development (FADD), University of Nairobi (UoN), Nairobi, Kenya.*
- *Maringa, Paul Mwangi. 1986. The Kenya National Theatre – Design Project. Bachelor of Architecture Design Thesis project, 1986, Department of Architecture, Faculty of Architecture Design & Development (FADD), University of Nairobi (UoN), Nairobi. Kenya.*

1.2.14 Editorship of a Journal, Book or Conference Proceedings

- *Maringa, Paul Mwangi. (Editor); Anamika Pande (Editor); Avijeet Jain (Editor). Innovare Academics Pvt Ltd., Sustainable Development Solutions for the Built Environment – Emerging Knowledge Systems. Innovare Academics Sciences (IAS) Dialogue – Education and Practice in Environmental Planning and Design Series. Chapter 2, pp.. 14-32, <https://innovareacademics.in/books>.*

- *Editor-in-Chief SABS Journal of Environment, Space and Society (SJESS), Research. Papers and Policy Briefs, JKUAT.* <https://sjess.jkuat.ac.ke/index.php/sjess>. School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.
- *Maringa, Paul Mwangi (Editor-in-Chief); Mbidhi, Martin Ochieng (Editor); Ng'eno, Faith S, Chelang'at (Editor); Kirongon, Beatrice (Editor); Musyimi, Marylyn Mumbua (Editor). SABS Book of Research Abstracts and Summaries of Design Projects (SBRA-SDP). Vol. I, 2024/25.* <https://ir.jkuat.ac.ke>; <https://sjess.jkuat.ac.ke/index.php/sjess>. School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.
- *Maringa, Paul Mwangi (Editor-in-Chief); Abuje, Sunday Julius (Assistant Editor-in-Chief); Karanja, Dennis (Editor); Mbiti, Stella Kasiva (Editor); Toroitich, Caleb Kiptum (Editor); Ng'eno, Faith Chelang'at (Editor); Kirongon, Beatrice (Editor); Musyimi, Marylyn Mumbua (Editor). SABS Book of Research Abstracts (SBRA). Vol. I, 2023/24.* <https://ir.jkuat.ac.ke>; <https://sjess.jkuat.ac.ke/index.php/sjess>. School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.
- *Maringa, Paul Mwangi (Editor-in-Chief); Elnaggar, Rehab Hamdi (Editor) and Kedogo, Joseph (Editor); Makagutu, Noel Onyango (Editor). Forum for Research and Design Solutions (DFRDS) - Design of Campus Student Hubs 2026;* <https://ir-library.ku.ac.ke/handle/123456789/29213>. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University, Nairobi, Kenya.
- *Maringa, Paul Mwangi (Editor-in-Chief); Elnaggar, Rehab Hamdi (Editor) and Kasau, Regina Wango (Editor); Mang'uro, Robinson (Editor). DAID Forum for Research and Design Solutions (DFRDS) - Design of Libraries, Museums and Exhibition Halls. Vol. I, 2024/25.* <https://ir-library.ku.ac.ke/handle/123456789/29213>. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University, Nairobi, Kenya.
- *Maringa, Paul Mwangi (Editor-in-Chief); Elnaggar, Rehab Hamdi (Editor) and Gathua, Moses (Editor). DAID Forum for Research and Design Solutions (DFRDS) – Sports Centres, Commercial Centres and High Rise Office Buildings. Vol. I, 2023/24.* <https://ir-library.ku.ac.ke/handle/123456789/29213>. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University, Nairobi, Kenya.
- *Maringa, Paul Mwangi (Editor-in-Chief); Odhiambo, Alfred Omenya (Editor); Elnaggar, Rehab Hamdi (Editor); and Maina, Wairimu (Editor). DAID Book of Research Abstracts and Synopses of Design Projects (DBRA-SDP). Vol. I, 2023/24.* <https://ir-library.ku.ac.ke/handle/123456789/29213>. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University, Nairobi, Kenya.

1.2.15 Scholarly Presentations at Conferences/Workshops/Seminars

- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA); Ngoma, Marie-Pierre (TVET expert VVOB); and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA). 2010. Curriculum Development Process for TVET in Rwanda. 2010. International Symposium on Technical and Vocational Education and Training Kigali - December 6 – 10, 2010, theme 2: Capacity Development in TVET, Workshop 1; Curriculum Design, Workforce Development Authority, Kigali, Rwanda.*
- *Ochieng, Philip Okello and Maringa, Paul Mwangi. 2008. A Didactic Design Approach for Attaining Imageable Architecture. Paper abstract accepted for presentation in the 1st Regional Conference on Scientific Research, Development and Innovations (SREDI2008), theme: Conservation, Sustainability and Biodiversity. Kigali Institute of Science and Technology (KIST), Kigali, Rwanda, 10th -12th December 2008.*
- *Maringa, Paul Mwangi. 2008. Relating Social Dysfunction to the Environmental Squalor in Cities. Paper abstract accepted for presentation in the 1st Regional Conference on Scientific Research, Development and Innovations (SREDI2008), theme: Conservation, Sustainability and Biodiversity. Kigali Institute of Science and Technology (KIST) Kigali, Rwanda, 10th -12th December 2008.*

- *Rubamya, Coletha Uwinezwa and Maringa, Paul Mwangi. 2008. Surface water treatment using a series filtration system. Paper abstract accepted for presentation in the 1st Regional Conference on Scientific Research, Development and Innovations (SREDI2008), theme: Innovations and Appropriate Technology Transfer. Kigali Institute of Science and Technology (KIST), Kigali, Rwanda 10th-12th December 2008.*
- *Maringa, Paul Mwangi; Gatabazi, Jean Damascene; and Mukarubibi, Fatina 2009. TVET Stakeholders & Implementers Validation and Sensitisation on TVET Regulatory Authority's Strategic Plan, Mandate and Vision Planning, December 3rd, 2009, Workforce Development Authority (WD, Kigali, Rwanda.*
- *Maringa, Paul Mwangi and Maringa, Maina. 2011. Aligning TIVET interventions in Kenya to contemporary international trends and with improved responsiveness to future development needs. Technical working paper presented at a seminar/workshop to a Ministry of Higher Education, Science and Technology (MOHEST) consultative forum at poster towers on 6th of January 2011, Nairobi, Kenya.*
- *Maringa, Paul Mwangi and Maringa, Maina. 2011. Suggested Curriculum, Development Process for Kenyan TVET. Technical working paper presented at a seminar/workshop to a Ministry of Higher Education, Science and Technology (MOHEST) consultative forum at poster towers on 6th of January 2011, Nairobi, Kenya.*

Workshops organised and attended

- *Maringa, Paul Mwangi (Associate Project Team Leader for the Singapore Corporation Enterprise (SCE) & the Workforce Development Authority (WDA) of Rwanda) and Bruno (Singapore Cooperation Enterprise). 2009. Strategic Plan preparation workshop for a National TVET regulation Authority. Workforce Development Authority (WDA - financier) and the Singapore Cooperation Enterprise - (SCE). Planning facilitation, presentations & discussions. Kigali, Rwanda, November 2009.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA); Ngoma, Marie-Pierre (TVET expert VVOB); and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA). 2010. Curriculum Development Institutional Structure workshop. Planning facilitation, presentations & discussions. Workforce Development Authority (WDA) and the Flemish Association for Development Cooperation and Technical Assistance - VVOB - financier), Kigali, Rwanda, 9th July 2010.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA); Holliday, Sophie (TVET Technical assistant APEFE); and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA). 2010. TVET Occupation identification in the Building Servicing Sector workshop. Planning facilitation, presentations & discussions. Workforce Development Authority (WDA-financier) and the Association for the Promotion of Education and Training Abroad - APEFE - financier), Kigali, Rwanda, 19th August 2010.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA); Ngoma, Marie-Pierre (TVET expert VVOB); and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA). 2010. TVET Occupation identification in the Hospitality & Tourism Sector workshop. Planning facilitation, presentations & discussions. Workforce Development Authority (WDA) and the Flemish Association for Development Cooperation and Technical Assistance - VVOB - financier), Kigali, Rwanda, 20th August 2010.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA); Holliday, Sophie (TVET Technical assistant APEFE); and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA). 2010. Validation of identified occupations for TVET training in the Building Servicing Sector workshop. Planning facilitation, presentations & discussions. Workforce Development Authority (WDA-financier) and the Association for the Promotion of Education and Training Abroad - APEFE - financier), Kigali, Rwanda, 13th September 2010.*
- *Maringa, Paul Mwangi; (TVET Technical Expert-Workforce Development Authority - WDA) Ngoma, Marie-Pierre (TVET expert VVOB); and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA). 2010. Validation of identified occupation for TVET training in the Hospitality & Tourism Sector workshop. Planning facilitation, presentations & discussions. Workforce Development Authority (WDA) and the Flemish Association for Development Cooperation and Technical Assistance - VVOB - financier), Kigali, Rwanda, 14th September 2010.*

- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA); Ngoma, Marie-Pierre (TVET expert VVOB); and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA). 2010. *DACUM Curriculum Development Methodology Harmonisation Workshop for TVET training in Rwanda. Planning facilitation, presentations & discussions. Workforce Development Authority (WDA) and the Flemish Association for Development Cooperation and Technical Assistance - VVOB - financier), Kigali, Rwanda, 16th -17th September 2010.*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA) and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA). 2010. *Simultaneous WDA & IPRC plus other TVET provider Instructors and industry content expert workshop sessions to translate DACUM Charts - Occupation Profiles into Competency Standards for the Cook, Receptionist, Tour guide and Waiter/waitress Level 1 (Artisan 1) occupations. Planning and facilitation. Workforce Development Authority (WDA - financier), Kigali, Rwanda, November & December 2010.*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA) and Mpamo, Aime (Ag., Head of Curriculum Development unit in WDA).. 2010. *Simultaneous WDA & IPRC plus other TVET provider Instructors and industry content expert workshop sessions to Develop Course Structures out of Competency Standards for the Cook, Receptionist, Tour guide and Waiter/waitress Level 1 (Artisan 1) occupations. Planning and facilitation. Workforce Development Authority (WDA - financier), Kigali, Rwanda, December 2010 & January 2011.*
- Maringa, Paul Mwangi (Senior Expert, Project Management and Planning); Wilson Muyenzi; Uwagirisa, Rose; and Mwenzikazi, Leocadie (Planning and Facilitation). 2011. *Sensitisation Workshop on the Skills Development Project. Workforce Development Authority (WDA - financier), Kigali, Rwanda, 23rd September 2011.*

1.2.16 Book Review Published in Refereed Journals

- Umenne, Sampson Ike and Maringa, Paul Mwangi. 1997. Book review of Carole Rakodi. 1985. *Harare: Inheriting a Settler Colonial City: Change or Continuity. The Horizon DAT: towards a developed architectural tradition - on the theme, the challenge of a developed regional expression, 1997, Volume 1, No. 1, pp., 80 - 82. Journal of the Department of Architecture at the Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.*
- Umenne, Sampson Ike and Maringa, Paul Mwangi. 1997. Book review of Charles Jencks. 1991. *The Language of Post-Modernism. The Horizon DAT: towards a developed architectural tradition - on the theme, the challenge of a developed regional expression, 1997, Volume 1, No. 1, pp., 85 - 86. Journal of the Department of Architecture at the Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.*

1.2.17 Reports on CBT TVET reform (Demand-driven, competency based)

- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA); Mpamo, Aime (Ag., Head Curriculum Development-WDA); Mugiraneza, Abel (Instructor, Integrated Polytechnic Regional Centre - IPRC Kigali-Kicukiro Campus); Mshuzza, Silas (Instructor, IPRC Kigali-Kicukiro Campus); Shyirambere, Emmanuel (DACUM Facilitator WDA); Gabungu, Faradj (DACUM Facilitator-WDA); Ingabire, Diogene (Instructor, Nyamata TSS); Musaniwabo, Hyacinthe (Pedagogue-WDA). February 2011. *TVET Curriculum-Course Structure-Modules, learning units, learning outcomes, Learning content, Learning activities, Learning resources and credits for the Carpentry, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Hategekimana, Gratien (DACUM facilitator-WDA); Ndegeya, Patrick (Instructor in Plumbing-WDA); Kanyangoga, Charles (Instructor in Plumbing-WDA); Musaniwabo, Hyacinthe (Pedagogue-WDA). February 2011. *TVET Curriculum-Course Structure-*

Modules, learning units, learning outcomes, Learning content, Learning activities, Learning resources and credits for the Plumbing, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.

- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Ihimbazwe, Maurice (Instructor, in Electrical-WDA); Ituzendutiye, Colombe (Electrical Engineer & Instructor in IT-WDA); Izabayo, Narcisse (Electrical Engineer & Instructor in IT-WDA); Rwamasirabo, Aimable (Electrical Engineer & DACUM Facilitator-WDA); Musaniwabo, Hyacinthe (Pedagogue-WDA). February 2011. TVET Curriculum-Course Structure-Modules, learning units, learning outcomes, Learning content, Learning activities, Learning resources and credits for the Electrician, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Nshimyumuremyi, Theoneste (Instructor, Integrated Polytechnic Regional Centre - IPRC Kigali-Kicukiro Campus); Hatari, Mathieu (Civil Engineer & DACUM Facilitator-WDA); Ingabire, Marie Aimee (Civil Engineer & Instructor in Construction-WDA); Gabungu, Faradj (DACUM Facilitator-WDA); Manzi, Aimable (Civil Engineer & Instructor in Construction-WDA); Musaniwabo, Hyacinthe (Pedagogue-WDA). February 2011. TVET Curriculum-Course Structure-Modules, learning units, learning outcomes, Learning content, Learning activities, Learning resources and credits for the Masonry, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Sangano, Bonaventure (Content Expert-industry); Uwase, Dian (Content expert-industry); Mukarambe, Judith (DACUM Facilitator-WDA); Mbabazi, Hope (Content Expert-industry); Turatsinze, Pacific (Content Expert-industry); Rusangamwa, Frederic (Examination and Certification Officer-Hospitality & Tourism-WDA); Mutangampundu, Consolatrice (Examination and Certification Officer Business Administration-WDA); Gafirigi, Clementine (Pedagogue-WDA). February 2011. TVET Curriculum-Course Structure-Modules, learning units, learning outcomes, Learning content, Learning activities, Learning resources and credits for the Tour Guide, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Umulisa, Mediatrice (Instructor in Housekeeping-WDA), Dorah Murungi (Instructor in Housekeeping); Mutoni, Beatrice (DACUM Facilitator-WDA); Nsengiyumva, Jean Paul B. (Instructor in Front Office-WDA); Habimana, Mobammed (Instructor in Front Office-WDA); Gafirigi, Clementine (Pedagogue-WDA). February 2011. TVET Curriculum-Course Structure-Modules, learning units, learning outcomes, Learning content, Learning activities, Learning resources and credits for the Receptionist, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Nyagatare, Joyce (Instructor in Food & Beverage Service-WDA); Batamuliza, Sonia (Instructor in Food & Beverage Service WDA); Muhire, Jean Marie Vianney (DACUM Facilitator-WDA); Ntambara, Steven (Instructor in Food & Beverage Service-WDA); Nziza, David Turatsinze (Instructor in Food & Beverage Service-WDA); Mukuringwa, Jean Pierre (Instructor in Food & Beverage Service-WDA); Ntare, Deus (Instructor in Food & Beverage Service-WDA); Gafirigi, Clementine (Pedagogue-WDA). February 2011. TVET Curriculum-Course Structure-Modules, learning units, learning outcomes, Learning content, Learning activities, Learning resources and credits for the Waiter/ waitress, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Rutayisire, Innocent (Chef & Instructor in Culinary Arts-WDA); Kamugisha, Paul (Chef & Instructor in Culinary Arts-WDA); Ndizeye, Edwinson (Pastry Chef & Instructor in Culinary Arts-WDA); Ngayaboshya, Emmanuel (Chef & Instructor in Culinary Arts-WDA); Gitenge, Claire (Chef de partie & Instructor in Culinary Arts-WDA); Kerazi, Justine (Chef & Instructor in Culinary Arts-WDA); Umuganwa, Jackline (Chef & Instructor in Culinary Arts-WDA); Bagire, Emmanuel Babiizi (Chef & Instructor in Culinary*

- Arts-WDA), Clementine Gafirigi (Pedagogue-WDA). February 2011. TVET Curriculum-Course Structure-Modules, learning units, learning outcomes, Learning content, Learning activities, Learning resources and credits for the Cook, Level 1 (Artisan 1) occupation, Workforce Development Authority (WDA), Kigali, Rwanda.*
- *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Mugiraneza, Abel (Instructor, Integrated Polytechnic Regional Centre - IPRC Kigali-Kicukiro Campus); Mshuzza, Silas (Instructor, IPRC Kigali-Kicukiro Campus); Shyirambere, Emmanuel (DACUM Facilitator-WDA); Gabungu, Faradj (DACUM Facilitator-WDA); Ingabire (Instructor, Nyamata TSS); Musanivabo, Hyacinthe (Pedagogue-WDA). February 2011. TVET Training Standards Competency Standards-Duties as Modules, learning units, learning outcomes (Performance Objectives), Assessment Criteria (Performance Indicators), Knowledge, Skills and Attitudes for the Carpentry, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
 - *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Hategekimana, Gratien (DACUM facilitator-WDA); Ndegeya, Patrick (Instructor in Plumbing-WDA); Kanyangoga, Charles (Instructor in Plumbing-WDA); Musanivabo, Hyacinthe (Pedagogue-WDA). February 2011. TVET Training Standards-Competency Standards-Duties as Modules, learning units, learning outcomes (Performance Objectives), Assessment Criteria (Performance Indicators), Knowledge, Skills and Attitudes for the Plumbing, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
 - *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Ihimbazwe, Maurice (Instructor, in Electrical-WDA); Ituzendutiye, Colombe (Electrical Engineer & Instructor in IT-WDA); Izabayo, Narcisse (Electrical Engineer & Instructor in IT-WDA); Rwamasirabo, Aimable (Electrical Engineer & DACUM Facilitator-WDA), Musanivabo, Hyacinthe (Pedagogue-WDA). February 2011. TVET Training Standards-Competency Standards-Duties as Modules, learning units, learning outcomes (Performance Objectives), Assessment Criteria (Performance Indicators), Knowledge, Skills and Attitudes for the Electrician, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
 - *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Nshimyumuremyi, Theoneste (Instructor, Integrated Polytechnic Regional Centre - IPRC Kigali-Kicukiro Campus); Hatari, Mathieu (Civil Engineer & DACUM Facilitator-WDA); Ingabire, Marie Aimee (Civil Engineer & Instructor in Construction-WDA); Gabungu, Faradj (DACUM Facilitator-WDA); Manzi, Aimable (Civil Engineer & Instructor in Construction-WDA); Musanivabo, Hyacinthe (Pedagogue-WDA). February 2011. TVET Training Standards-Competency Standards-Duties as Modules, learning units, learning outcomes (Performance Objectives), Assessment Criteria (Performance Indicators), Knowledge, Skills and Attitudes for the Masonry, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
 - *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Sangano, Bonaventure (Content Expert-industry); , Dian (Content expert-industry); Mukarambe, Judith (DACUM Facilitator-WDA); Mbabazi, Hope (Content Expert-industry); Turatsinze, Pacific (Content Expert-industry); Rusanganwa, Frederic (Examination and Certification Officer-Hospitality & Tourism-WDA); Mutangampundu, Consolatrice (Examination and Certification Officer Business Administration-WDA); Gafirigi, Clementine (Pedagogue-WDA). February 2011. TVET Training Standards-Competency Standards-Duties as Modules, learning units, learning outcomes (Performance Objectives), Assessment Criteria (Performance Indicators), Knowledge, Skills and Attitudes for the Tour Guide, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.*
 - *Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Umulisa, Mediatrice (Instructor in Housekeeping-WDA); Murungi, Dorah (Instructor in Housekeeping), Beatrice Mutoni (DACUM Facilitator-WDA); Nsengiyumva, Jean Paul B., (Instructor in Front Office-WDA); Habimana, Mobammed (Instructor in*

Front Office-WDA); Gafirigi, Clementine (Pedagogue-WDA). February 2011. TVET Training Standards-Competency Standards-Duties as Modules, learning units, learning outcomes (Performance Objectives), Assessment Criteria (Performance Indicators), Knowledge, Skills and Attitudes for the Receptionist, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.

- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Nyagatare, Joyce (Instructor in Food & Beverage Service-WDA); Batamuliza, Sonia (Instructor in Food & Beverage Service-WDA); Muhire, Jean Marie Vianney (DACUM Facilitator-WDA); Ntambara, Steven (Instructor in Food & Beverage Service-WDA); Nziza, David Turatsinze (Instructor in Food & Beverage Service-WDA); Mukuringwa, Jean Pierre (Instructor in Food & Beverage Service-WDA); Ntare, Deus (Instructor in Food & Beverage Service-WDA); Gafirigi, Clementine (Pedagogue-WDA). February 2011. TVET Training Standards-Competency Standards-Duties as Modules, learning units, learning outcomes (Performance Objectives), Assessment Criteria (Performance Indicators), Knowledge, Skills and Attitudes for the Waiter/waitress, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.
- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA), Mpamo, Aime (Ag., Head Curriculum Development-WDA); Rutayisire, Innocent (Chef & Instructor in Culinary arts-WDA); Kamugisha, Paul (Chef & Instructor in Culinary Arts-WDA); Ndizeye, Edwinson (Pastry Chef & Instructor in Culinary Arts-WDA); Ngayaboshya, Emmanuel (Chef & Instructor in Culinary Arts-WDA); Gitenge, Claire (Chef de partie & Instructor in Culinary Arts-WDA); Kerazi, Justine (Chef & Instructor in Culinary Arts-WDA); Umuganwa, Jackline (Chef & Instructor in Culinary Arts-WDA); Bagire, Emmanuel Babizi (Chef & Instructor in Culinary Arts-WDA); Gafirigi, Clementine (Pedagogue-WDA). February 2011. TVET Training Standards-Competency Standards-Duties as Modules, learning units, learning outcomes (Performance Objectives), Assessment Criteria (Performance Indicators), Knowledge, Skills and Attitudes for the Cook, Level 1 (Artisan 1) occupation. Workforce Development Authority (WDA), Kigali, Rwanda.

1.2.18 Reports on policy development and institutional growth.)

- Maringa, Paul Mwangi (TVET Technical Expert-Workforce Development Authority - WDA); Mpamo, Aime (Ag., Head Curriculum Development-WDA); Mugiraneza,

1.3 QUALITY TEACHING, LEARNING AND MENTORSHIP

2.3.1 Student Evaluations.

JKUAT Master's Degree this and project programming evaluation, (external examiner).

- Maringa, Paul Mwangi, external examiner for, Omollo Noel Japheth Okello. 2005/6. *A Comparative Evaluation of the Impact of Earth Technologies on the Provision of Decent and Affordable Shelter to the Urban Poor: The case of two cities in East Africa*. Masters of Urban Design (MUD) Research Thesis Project, Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.
- Maringa, Paul Mwangi, external examiner for, Omollo Noel Japheth Okello. 2005/6. *Kibera Earth Village, Nairobi*. Masters of Urban Design (MUD) Design Thesis Project Programming, Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.

DURP Master's degree thesis evaluation (internal examiner).

- Maringa, Paul Mwangi, external examiner for, Chao, James Mtua. 2023/4. *Land use planning and governance in peri-urban areas: a case of Bomani phase II, Voi, Taita Taveta County*. Department of Urban and Regional Planning (DURP), Faculty of the Built Environment and Design (FABED), University of Nairobi (UoN).

JKUAT Master's Degree thesis and design project evaluation (internal examiner).

- Maringa, Paul Mwangi, internal examiner, Katile, Esther. 2005/6. *The Influence of the Streetscape on the Informal Market: A case of Nairobi's Central Business District*. Masters of Urban Design (MUD) Research Thesis Project. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.
- Maringa, Paul Mwangi, internal examiner, Katile, Esther. 2005/6. *Shoppers Street: Tom Mboya Street, Nairobi*. Masters of Urban Design (MUD) Thesis Project Programming, Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.

DAID & JKUAT Integrated Master's degree (B.Arch. VI) thesis, project programming and design project evaluation (internal examiner). *An integrated master's degree is a single degree that combines undergraduate and master's level study. The degree typically takes four to five years to complete, depending on whether the program includes a year-long work placement. Here are some benefits of an integrated master's degree:* (i). **Dual qualification:** *You graduate with both a bachelor's and a master's degree (<https://www.dcu.ie/engineeringandcomputing/guide-integrated-masters#:~:text=What%20is%20an%20integrated%20masters,which%20is%209%20months%20long>). KU & JKUAT offer a Bachelors of Architectural Studies (BAS) in four years followed by a Bachelors of Architecture (B.ARCH.) in an additional two years.* (ii). **Specialized qualification:** *The final year of an integrated master's degree often allows students to choose modules that focus on their career goals. KU & JKUAT offer opportunity for research based learning in the 5th & 6th years of study with a bias on the future professional and research interests of individual students.* (iii). **Competitive advantage:** *A higher qualification can give you an edge in the job market.* (iv). **Explore a subject in depth:** *You can delve deeper into your chosen subject and develop your transferable skills (<https://www.northumbria.ac.uk/study-at-northumbria/subject-and-study-guides/guides-articles/integrated-masters/#:~:text=When%20you%20study%20an%20Integrated,the%20course%2C%20loans%20and%20bursaries>). KU and JKUAT afford this with the 5th year of study with its year-long focus on housing and human settlement planning with its necessary reports and portfolio; and the 6th year of learning with its year-long research based learning that produces a research thesis report, project programming report and design project portfolio, where research results are programmed and realised in a design project that is set within a real life setting.*

- Maringa, Paul Mwangi, internal examiner for, Mbuva, Maxine Nthenya. 2023/4. *Exploring architectural interventions towards enhancing the well-being of Psychiatric geriatric patients in Nairobi County, Kenya*. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.
- Maringa, Paul Mwangi, internal examiner for, Murage, Linda Wamuyu. 2023/4. *Analysis of the relationship between design and building performance in Biomedical research buildings: Impact of design on thermal and lighting comfort*. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.
- Maringa, Paul Mwangi, internal examiner for, Akoth, Mary Goretti. 2023/4. *A study of Luo traditional architecture in Kenya and its potential in the hospitality industry*. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.
- Maringa, Paul Mwangi, internal examiner for, Lynette Chepkemai. 2025/6. *Cultural Continuity through Spatial Flexibility - A case of Multifunctional Performance Spaces*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Lynette Chepkemai. 2025/6. *The Confluence Arts Centre – Proposed Multifunctional Performance Space in Karen, Nairobi City County – Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.

- Maringa, Paul Mwangi, internal examiner for, Divya Crystal Wambita. 2025/6. *Establishing Vulnerability for Adaptation of Built Heritage to Climate Change – A case of Historic Buildings in Lamu County*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Divya Crystal Wambita. 2025/6. *Adaptive Reuse of Built Heritage – Takwa Archaeological Museum – Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Mercy Cheptoo. 2025/6. *Exploring Architectural Design Strategies for Sustained Occupancy – A case of selected Commercial Buildings in Nairobi County, Kenya*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Mercy Cheptoo. 2025/6. *Proposed Commercial HUB in Ruiru Municipality, Kiambu County – Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, John Kata Paul. 2025/6. *Spatial attributes and patterns for the adaptation of abandoned industrial developments - A case of adaptive reuse on an abandoned industry in Kikuyu town as an opportunity for a mixed-use commercial centre*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya. .
- Maringa, Paul Mwangi, internal examiner for, John Kata Paul. 2025/6. *Adaptive reuse of an abandoned industrial plant in Kikuyu town as an opportunity for a mixed-use development – Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Hosea Langat-. 2025/6. *Reimagining destination design through placemaking by addressing spatial configuration: A case of Dunga beach, Kisumu County*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Hosea Langat-. 2025/6. *Proposed cultural village – Dunga Beach, Kisumu County – Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Henry Kipng'eno Ronoh. 2025/6. *Influence of Afrofuturism on place identity. A case of civic buildings in Nairobi, CBD*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Henry Ronoh. 2025/6. *Proposed multi-purpose civic centre in Nairobi, CBD – Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Babu Njue Munene. 2024/5. *Built form and its role in place identity - A case of transit spaces*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for Babu Njue Munene. 2024/5. *Proposed Mtito Andei Highway Motel*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Jeanne Savay Ogada. 2024/5. *The role of the built form in shaping the architectural identity of urban heritage areas - A case of Old Town Mombasa*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner for, Jeanne Savay Ogada. 2024/5. *Proposed Kale and Kileo Business Bub - Old town Mombasa, Mombasa County – Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.

- Maringa, Paul Mwangi, internal examiner, 2005/6. *Impact of Space on Learning in Gifted Children - Research Thesis Project; Learning Resource Center – Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner, 2005/6. *Cultural Identity in Contemporary Architecture: A case of the East African Coastal Region - Research Thesis Project; The Swahili City of Arts - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 2000/1. *Appropriate Architecture for Indoor Sports for People with Physical Disabilities" - Research Thesis Project*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.
- Maringa, Paul Mwangi, internal examiner, 1998/9. *Influence of Physical Setting on social Interaction and Interactivity in an Appropriate Technology Center - Research Thesis Project; Appropriate Technology Center - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1998/9. *Influence of Physical Setting on the Behaviour of Orphaned Children - Research Thesis Project; Children's Orphanage - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1998/9. *Child Recreation in Urban Space: Effect of Area, Sale, Colour, and Texture - Research Thesis Project; Amusement Park - Design Thesis Project Programming, 1998/99*, Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1998/9. *Design Parameters in Matatu Terminus - Research Thesis Project; Matatu Terminus - Design Thesis Project Programming*, Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Materials and Meaning in Architecture: Regional Contextualism in Materials' use in Resort Facilities - Research Thesis Project; Beach Resort - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1998/9. *Indoor Sports Buildings: towards a Safe Sporting Environment - Research Thesis Project; Indoor Sports Center - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1998/9. *Effect of circulation and Movement on Exhibition Centres' Design - Research Thesis Project; Exhibition Center - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1998/9. *The Musical Space: In Search of an Architectural Expression Synthesising Elements of the Rich Cultural Heritage of a Modern African Setting - Research Thesis Project; Cultural Music Center - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *The Effects of form on Functional Appropriateness of a Worship space and behavioural Consequences: The case of the Kenyan Pentecostal Church - Research Thesis Project; Functional Church - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1998/9. *Impact of Therapeutic and Healing Environments on Terminally Ill Cancer Patients - Research Thesis Project; Terminally Ill Cancer Center - Design Thesis Project Programming*. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).

- Maringa, Paul Mwangi, internal examiner, 1997/8. *Impact of spatial Design on Social Interaction in Institutions* - Research Thesis Project; Youth Center - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Trends in Retailing: Towards Integrated Architectural Structures* - Research Thesis Project; City Square Vendors' Plaza - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *An Insight into the Users needs in Recreational Facilities in the Core of Nairobi* - Research Thesis Project; The Spa – An Urban Recreational Facility - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Interiorisation of the Shopping Precinct* - B Research Thesis Project; Design of a Suburban Shopping Mall in Karen - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Water and Recreation: Designing for Recreation in the Water Environment* - Research Thesis Project; Nairobi Sailing Club – Water: Place and Means - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Architectural Celebration of Political Power* - Research Thesis Project; The Re-Development of the National Parliament Building - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Structure Beyond Function* - Research Thesis Project; Bamburi Pharmaceuticals - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *The School of Art as a Symbol of Self Expression* - Research Thesis Project; The Joe Murumbi School of Fine Arts - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Design Parameters in a Marine Research Center* - Research Thesis Project; Mtwapa Marine Life research Center - Design Thesis Project Programming, 1997/98, Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Redefining Architectural Space in the information Age* - Research Thesis Project; African Regional Center for Computing - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1997/8. *Tradition, Continuity and Change in the Built form, A case of Kenya* - Research Thesis Project; Cultural Information Center - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1996/7. *Design Parameters for Homes for Orphaned / Abandoned Children* - Research Thesis Project; Children's Home - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- Maringa, Paul Mwangi, internal examiner, 1996/7. *Economic Forces in the Architecture of Central Business Districts (With special reference to the City of Nairobi)* - Research Thesis Project; The African Regional Center for Computing - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).

- *Maringa, Paul Mwangi, internal examiner, 1996/7. Search for Cultural Expression and Identity in Architecture - Research Thesis Project; Culture Awareness Center - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Maringa, Paul Mwangi, internal examiner, 1996/7. Design Parameters for Exhibiting Wild Animals - Research Thesis Project; Wildlife Conservation Education Center - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Maringa, Paul Mwangi, internal examiner, 1996/7. A Sense of Belonging in Deprive Environments - Research Thesis Project; Street Children Rehabilitation Center - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Maringa, Paul Mwangi, internal examiner, 1996/7. Social and Psychological factors in Landscaped Leisure - Research Thesis Project; Oasis Amusement Park - B Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Maringa, Paul Mwangi, internal examiner, 1996/7. Kikuyu Cultural Center - Research Thesis Project; Influence of Spiritual Dimensions in African Architecture - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Maringa, Paul Mwangi, internal examiner, 1996/7. Architectural Delight without Vision - Research Thesis Project; Redhill Blind's Academy - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Maringa, Paul Mwangi, internal examiner, 1996/7. Use of Environmental factors in Way Finding - Research Thesis Project; Children's Hospital – Outering Road, Nairobi - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Maringa, Paul Mwangi, internal examiner, 1996/7. A Typological Identity for Built Urban Recreational Form - Research Thesis Project; The Leisure Point - design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*
- *Maringa, Paul Mwangi, internal examiner, 1996/7. Tradition, Continuity, and Change in Built Form - Research Thesis Project; Cultural Information Center - Design Thesis Project Programming. Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT).*

1.3.2 Trainings in Higher Education

- *None.*

1.3.3 Ongoing Supervisions

Doctoral Degree

- *Maringa, Paul Mwangi and Ochieng, Martin Mbidhi, supervising, Ngungui, Jerusha Nzembi, 2024+. Influence of Space Design on Indoor Environmental Quality for Climate-Resilient Tropical Housing: A Case of the City of Nairobi, Kenya. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi; Karanja, Dennis; and Ng'eno, Faith Chelang'at, supervising, Musyimi, Marylyn Mumbua, 2024+. The Influence of digital representation on spatial justice in development control - A case of the city of Nairobi, Kenya. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*

Master's Degree

- *Maringa, Paul Mwangi and Kibue, Susan Njeri, supervising, Waburiri, Wycliffe J.T. 2024+. Optimizing First-and Last-Mile Pedestrian-Centric Traffic Management for Enhanced Shopping Corridor Space. Master of Urban Design, Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*

JKUAT Integrated Master's Degree (B.Arch., VI), supervision.

- *Maringa, Paul Mwangi, supervising, Nyaboke, Kemunto Ontita 2025/6. Influence of Spatial Design on Human Perception and Behaviour - A Case of Mental Wellness Centres in Nairobi City County, Kenya. Department of Architecture, School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology.*
- *Maringa, Paul Mwangi, supervising, Habanyu, Stephanie Wambui. 2025/6. Impact of Building design & Technologies on Environmental sustainability - A case of Performing Arts Centers in Nairobi City County, Kenya. Department of Architecture, School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology.*
- *Maringa, Paul Mwangi, supervising, Mbingo, Vincent Musili. 2025/6. Placemaking Design Strategies for Public Social Spaces - A case of Streets in Nairobi City County, Kenya. Department of Architecture, School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology.*

1.3.4 Supervision of Postgraduate Students

1.3.4.1 Concluded Master's Degree

- *Maringa, Paul Mwangi, supervised Mkdii Alfayo Urui. 2005/06. The Influence of Urban Heritage on the Quality of Housing: A case of Old Town Mombasa. Master of Urban Design (MUD) Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised Mkdii Alfayo Urui. 2005/06. Re-ordering of the Government Square in Old-Town-Mombasa, Master of Urban Design (MUD) Studio/Portfolio Project. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised Mkdii Alfayo Urui. 2005/06. Re-ordering Aga Khan walk in Nairobi city Central Business District (CBD), Masters of Urban Design (MUD) Studio/Portfolio Project. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi and Muketha, Silas Mwiti, supervised, Kitulu, Loise Nduku. 2023/4. Stormwater harvesting for sustainable rural water supply – A case of the Mua hills settlement, Machakos County, Kenya. Department of Urban and Regional Planning (DURP), Faculty of the Built Environment and Design (FABED), University of Nairobi (UoN).*

Concluded DAID Integrated Master's degree (B.Arch., VI).

- *Maringa, Paul Mwangi, supervising, Thuku Margaret Wachera. 2024/5. The Influence of Social Aspirations and Values on Architectural Design – Expressing the Struggle for Freedom and Democracy in Kenyan Architecture. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.*
- *Maringa, Paul Mwangi, supervising Etyang, Romans Romie. 2024/5. The influence of social cohesion and environmental quality on the design of well-functioning, sustainable urban public markets – a case of the county city of Nairobi, Kenya. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.*
- *Maringa, Paul Mwangi, supervised, Gatamu, Karen, Nyawira. 2023/4. The influence of changing user needs on the design and form of libraries. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.*

- *Maringa, Paul Mwangi, supervised, Njuguna, Michael Macharia. 2023/4. Influence of Design on the Adaptability of Buildings: A case of the city of Nairobi, Kenya. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.*

Concluded JKUAT Integrated Master's degree (B.Arch., VI).

- *Maringa, Paul Mwangi, supervising, Njagi, Theresa Kathambi. 2024/5. Perception of place and its influence on human behaviour - A case of drug rehabilitation centres in Nairobi City County, Kenya. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.*
- *Maringa, Paul Mwangi, supervising, Musah, Ian. 2024/5. Influence of transition spaces on the Aesthetics of built form. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.*
- *Maringa, Paul Mwangi, supervising, Atuti, Job Nyangena. 2024/5. The influence of placemaking practice on the quality of public urban spaces in Kenya - A case of public parks in Nairobi City, Kenya. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University.*
- *Maringa, Paul Mwangi, supervised, Nicholas Onyango. 2006/07. Influence of Structural Function on Meaning in Architectural Design. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Stephen Weke. 2006/07. Influence of the Physical Environment on the Rehabilitation of Juvenile Delinquents: Rehabilitation of Street Children. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Ochieng Philip Okello. 2005/06. Relationship of between Imageability and Form on Architectural Design. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Ochieng Philip Okello. 2005/06. The Kenya National Marine Museum and Center for Aquatic Studies – Malindi, Kenya. Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Naicca Matseshe Christopher. 2005/06. The Influence of the Built Environment on Human Behaviour. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Naicca Matseshe Christopher. 2005/06. Langata Women's Halfway Rehabilitation Center – Nairobi, Kenya. Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Paul Aloyo. 1998/99. The Impact of Physical Environment on Law Court Users: Planning for a Model High Court. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Paul Aloyo. 1998/99. The New Kakamega High court. Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Munala A. Kweya, 1998/99. Visual Synergises: Structural Timber Aesthetics in Situational Architecture. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Munala A. Kweya, 1998/99. Flamingo Center & The Lonrho Tree Hotel. Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*

- *Maringa, Paul Mwangi, supervised, Mutua Ngula Francis. 1997/98. Spatial and Form Aspects in the Character of Airport Passenger Terminal. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Mutua Ngula Francis. 1997/98. Planes in the Plains: Malindi Airport Terminal Building Development. Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Mutua M. Jack Allan. 1997/98. Functional Adaptation of Architectural Expression to the Environment. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Mutua M. Jack Allan. 1997/98. The Babari Bonanza: Transit Leisure Harbour, Mombasa. Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Andrew L. Shikbule. 1996/97. Post Modernism: An Alternative Approach for the Conservation and Adaptive Use of Historic Buildings. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Andrew L. Shikbule. 1996/97. The Re-design of the Nairobi Railway Station. Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Ng'ang'a G. K. Lawrence. 1996/97. Social Cultural Impact on Built Form in a Changing Society. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Ng'ang'a G. K. Lawrence. 1996/97. The Maasai Kraal: Tourism Promotion and Redevelopment Centre, Narok. Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Ng'ang'a G. K. Lawrence. 1997/98. Design Parameters for Forex Trading in Kenya. Research Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi, supervised, Ng'ang'a G. K. Lawrence. 1997/98. Financial Center Design Project Programming, and Design Thesis. Department of Architecture, School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*

1.3.4.2 PhD

- *None completed so far.*

1.4 PROFESSIONAL/CONSULTANCY

1.4.1 Networks/Collaborations

- *Department of Architecture and Interior Design (DAID), School of Engineering and Architecture (SEA), Kenyatta University of Nairobi (KU), Nairobi, Kenya.*
 - *Negotiating a mutually beneficial collaboration partnership with the National Construction Authority to support research and publications.*
 - *Negotiating a Kshs 500,000 annual funding support by the East African Institute of Architects (EIA), through the College of Fellows (CoF) of the Architectural Association of Kenya (AAK), for research and publications.*

- *Department of Architecture, School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
 - *Negotiating a mutually beneficial collaboration partnership with the National Construction Authority to support research and publications.*
 - *Negotiating a Kshs 500,000 annual funding support by the East African Institute of Architects (ELA), through the College of Fellows (CoF) of the Architectural Association of Kenya (AAK), for research and publications.*
- *Department of Urban and Regional Planning (DURP), Faculty of the Built Environment and Design (FABED), University of Nairobi (UoN), Nairobi, Kenya.*
 - *Partnership of the Department of Urban and Regional Planning (DURP), Faculty of the Built Environment and Design (FABED), University of Nairobi (UoN) with Crown Paints Kenya Limited.*
 - *Proposal for a diversified, mutually beneficial partnership with a capacity to grow realise an eventual cumulative funding support for the DURP of Kshs 26m, initiated with a starter Kshs 1m grant for students award and refurbishment of offices , studio facilities (pin-up boards and drawing tables), 2024.*
 - *Corresponding corporation agreement signed up by both parties formally.*
 - *Initiated County Spatial Planning (CSP) for Taita Taveta, Uasin Gishu, Elgeyo Marakwet, Marsabit and Wajir Counties, with the necessary follow up engagements including deliberation and consensus on supporting collaboration agreements. Anticipated consultation fees for each of this County Spatial Plans (CSPs) ranging from Kshs 95 - 150m.*

1.4.2 Editorial Boards/Referee for professional periodicals.

- *Maringa, Paul Mwangi. (Editor); Anamika Pande (Editor); Avijeet Jain (Editor). Innovare Academics Pvt Ltd., Sustainable Development Solutions for the Built Environment – Emerging Knowledge Systems. Innovare Academics Sciences (IAS) Dialogue – Education and Practice in Environmental Planning and Design Series. <https://innovareacademics.in/books>.*
- *Editor-in-Chief SABS Journal of Environment, Space and Society (SJESS), Research. Papers and Policy Briefs, JKUAT. <https://sjess.jkuat.ac.ke/index.php/sjess>. School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi (Editor-in-Chief); Mbidihi, Martin Ochieng (Editor); Ng'eno, Faith S, Chelang'at (Editor); Kironгон, Beatrice (Editor); Musyimi, Marylyn Mumbua (Editor). SABS Book of Research Abstracts and Summaries of Design Projects (SBR4-SDP). Vol. I, 2024/25. <https://ir.jkuat.ac.ke>; <https://sjess.jkuat.ac.ke/index.php/sjess>. School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi (Editor-in-Chief); Abuje, Sunday Julius (Assistant Editor-in-Chief); Karanja, Dennis (Editor); Mbiti, Stella Kasiva (Editor); Toroitich, Caleb Kiptum (Editor); Ng'eno, Faith Chelang'at (Editor); Kironгон, Beatrice (Editor); Musyimi, Marylyn Mumbua (Editor). SABS Book of Research Abstracts (SBR4). Vol. I, 2023/24. <https://ir.jkuat.ac.ke>; <https://sjess.jkuat.ac.ke/index.php/sjess>. School of Architecture and Building Sciences, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.*
- *Maringa, Paul Mwangi (Editor-in-Chief); Elnaggar, Rehab Hamdi (Editor) and Kedogo, Joseph (Editor); Makagutu, Noel Onyango (Editor). Forum for Research and Design Solutions (DFRDS) - Design of Campus Student Hubs 2026. <https://ir-library.ku.ac.ke/handle/123456789/29213>. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University, Nairobi, Kenya.*
- *Maringa, Paul Mwangi (Editor-in-Chief); Elnaggar, Rehab Hamdi (Editor) and Kasau, Regina Wango (Editor); Mang'uro, Robinson (Editor). DAID Forum for Research and Design Solutions (DFRDS) - Design of Libraries, Museums and Exhibition Halls. Vol. I,*

2024/25. <https://ir-library.ku.ac.ke/handle/123456789/29213>. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University, Nairobi, Kenya.

- Maringa, Paul Mwangi (Editor-in-Chief); Elnaggar, Rehab Hamdi (Editor) and Gathua, Moses (Editor). DAID Forum for Research and Design Solutions (DFRDS) – Sports Centres, Commercial Centres and High Rise Office Buildings. Vol. I, 2023/24. <https://ir-library.ku.ac.ke/handle/123456789/29213>. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University, Nairobi, Kenya.
- Maringa, Paul Mwangi (Editor-in-Chief); Odhiambo, Alfred Omenya (Editor); Elnaggar, Rehab Hamdi (Editor); and Maina, Wairimu (Editor). DAID Book of Research Abstracts and Synopses of Design Projects (DBRA-SDP). Vol. I, 2023/24. <https://ir-library.ku.ac.ke/handle/123456789/29213>. Department of Architecture and Interior Design, School of Engineering and Architecture, Kenyatta University, Nairobi, Kenya.
- Maringa, Paul Mwangi (Editor-in-Chief); Editor-in Chief; Ngariy, Zachariah Abiero (Associate Editor – Transportation Engineering & Planning); Mburu, Francis Mwangi (Associate Editor – Urban Design and Conservation); Ndung'u, Abraham (Associate Editor – Sociology & Planning); Rukwaro, Robert Wambugu (Associate Editor – Architectural Design Theory and Management). *Journal of Environment and Planning and Architecture (JEPa)*, 2008/11.
- Maringa, Paul Mwangi (Editor-in-Chief); (Editor-in-Chief); Otoki, Koske, James K. A. (Editor – Environmental Management & Planning); Bernard Moirongo (Editor – Urban Design & Conservation); Wokabi, Samson Mwangi (Editor – Sociology & Planning); Mbatba, Christopher Muthini (Editor - Structural Aesthetics & Technology); Mugo, Frida Wilumina (Editor – Energy, Housing Design & Technology). *Journal of Inquiry, Design and Pedagogy (JIDEP)*, 2008/11.
- Otoki, Bernard Moirongo (Editor-in-Chief – Urban Design and Construction Management); Maringa, Paul Mwangi (Associate Editor – Architecture & Planning); (Alfred Talukaba (Associate Editor – Construction Management); David Mwale (Associate Editor – Architectural Science); Svendsen, Sven Eric – Associate Editor Landscape Architecture). *African Journal of Design and Construction (AJDC)*, 2006/7.

1.4.3 Consulting for international/national boards

Workforce Development Authority (WDA) and the construction of Polytechnics and Technical Secondary Schools, Rwanda.

- Maringa, Paul Mwangi (Technical Expert & Master Trainer in Building Construction, an Infrastructural Planning & Development Expert). 2012 Construction of Electrical, Plumbing, Masonry, and Automobile Inspection Workshops at the Gishari Integrated Polytechnic (GIP). Workforce Development Authority – WDA, Rwanda, December 2012 – March 2013.
- Maringa, Paul Mwangi (Technical Expert & Master Trainer in Building Construction, an Infrastructural Planning & Development Expert). 2013. Upgrading, redecoration, and renovation of Integrated Polytechnic Regional Centre – IPRC South Carpentry, Masonry, Welding, Plumbing, Electrical & hospitality (Training Kitchen, Restaurant, Front Office & Housekeeping) workshops, Huye. Workforce Development Authority – WDA, Rwanda, (August – December 2013).
- Maringa, Paul Mwangi (Technical Expert & Master Trainer in Building Construction, an Infrastructural Planning & Development Expert). 2009. Construction of ICT laboratory at the VTC Kavumu, Nyanza. Workforce Development Authority – WDA, Rwanda, (March – July 2009).
- Maringa, Paul Mwangi (Principle - Urban Logic – An Architecture and Planning Praxis). Design and construction of village polytechnic classrooms and workshops at Mapimo in Malindi, Mkwajuni in Kilifi, and Kidaya Ngereni in Taita Taveta. 2006 – 2007. Volunteer Service Overseas (VSO) and Practical Action in the Kenyan Coast. Funded by the European Union, Kenya, 2006/7.
- Maringa, Paul Mwangi (Architect). 2007. Design advice on Renovations and Alterations to residential flats at Kiyovu, Kigali, Rwanda, for a Mr., Jean De Dieu.

- *Maringa, Paul Mwangi (Architect - Icon Consortium). 2007. Condominium Housing Development design proposal on a one-acre prime urban land parcel for Mr. & Mrs. Richard & Aloisea Masozera at Rugwiro, Kacyiru, Kigali, Rwanda).*
- *Maringa, Paul Mwangi; Maringa, Maina; Mfinanga Joseph. 2007. Technical and Financial Proposal for A Short-Term Strategy for the Improvement of Technical Secondary School Education (ETO's) in Rwanda. Ministry of Education (MINEDUC), Kigali, Rwanda, July 2007.*
- *Maringa, Paul Mwangi; Maringa, Maina; Mfinanga Joseph. 2007. Technical Report on A Short-Term Strategy for the Improvement of Public Technical Secondary School Education (ETO's) in Rwanda. Ministry of Education (MINEDUC), Kigali, Rwanda, August 2007.*
- *Maringa, Paul Mwangi; Maringa, Maina; Mfinanga Joseph. 2007. Project Proposal for A Short-Term Strategy for the Improvement of Technical Education in Technical Secondary School (ETO's) and Colleges of Technology, in Rwanda. Ministry of Education (MINEDUC), Kigali, Rwanda, September 2007.*

Commission for Higher Education (CHE), Kenya

- *Technical evaluation of the institutions for accreditation and award of a University Charter, or accreditation as a Post Secondary Institution, by the Commission for Higher Education (CHE), each with a professional reports of up to 20 pages, on Architectural and Planning concerns. Institutions inspected, appropriate technical reports generated, and feedback sessions held, are listed here below as follows:*
 - **The year 2000**
 - *Kabarak University, Nakuru, Kenya – July 2000 (Consideration for University Charter),*
 - *Strathmore College, Madaraka, Nairobi, Kenya – July 2000 (Consideration for University Charter),*
 - *Kenya Utalii College, Nairobi, Kenya – July 2000 (Consideration for University Charter),*
 - *Augustana College, Kasarani, Nairobi, Kenya – July 2000 (Consideration for University Charter),*
 - *Presbyterian University, Kikuyu, Kiambu, Kenya – July 2000 (Consideration for University Charter),*
 - *Kenya College of Accountancy, Ruaraka, Nairobi, Kenya – July 2000 (Consideration for University Charter),*
 - *Kiriri Women's University of Science and Technology, Githurai-Kimbo, Nairobi, Kenya – July 2000 (Consideration for University Charter),*
 - *Aga Khan University School of Nursing, Parklands, Nairobi, Kenya – August 2000 (Consideration for University Charter).*
 - **The year 2001**
 - *Hindu University, Ngara, Nairobi, Kenya – June 2001 (Consideration for University Charter),*
 - *African Nazarene University, Ongata Rongai, Kajiado, Kenya – July 2001 (Consideration for University Charter),*
 - *Augustana College, Kasarani, Nairobi, Kenya – June 2001 (Consideration for University Charter),*
 - *Marist International Center Campus, Langata, Nairobi, Kenya – September 2001 (Consideration for University Charter).*
 - *Development of Architectural and Planning Guidelines to be used for self-evaluation of physical facilities for universities in Kenya – September 2001*
 - **The year 2003**
 - *Kenya Polytechnic, Nairobi, Kenya – February 2003 (Consideration for upgrading to a university),*
 - *Mombasa Polytechnic, Nairobi, Kenya – February 2003 (Consideration for upgrading to a university),*
 - *Bandari College, Nairobi, Kenya – February 2003 (Consideration for upgrading to a university),*
 - *Pan African Christian College (PACC), Kasarani, Nairobi, Kenya – April 2003 (Consideration for University Charter),*
 - *Gretsa University, Makongeni, Thika, Kenya – February 2003 (Consideration for University Charter),*

- *Catholic University of East Africa (AMECEA), Langata, Nairobi, Kenya – May 2003 (Consideration for University Charter),*
- *Tropical Institute of Community Health and Development (TICH), Milimani, Kisumu – December 2003 (Consideration for University Charter).*
- ***The year 2004***
 - *Kenya Highlands Bible College, Kericho, Kenya – September 2004 (Consideration for University Charter),*
 - *St., Paul's Theological College, Limuru, Kiambu, Kenya–Sept 2004 (Consideration for University Charter),*
 - *Kenya Methodist University, Kaaga, Meru, Kenya – February 2004 (Consideration for University Charter),*
 - *Aga Khan University School of Nursing, Parklands, Nairobi, Kenya – January 2004 (Consideration for University Charter),*
 - *Tropical Institute of Community Health and Development (TICH), Milimani, Kisumu – November 2004 (Consideration for University Charter),*
 - *Gretsa University, Makongeni, Thika, Kenya – January 2004 (Consideration for University Charter).*
- ***The year 2005***
 - *African Nazarene University, Ongata Rongai, Kajiado, Kenya – January 2005 (Consideration for University Charter – Joint technical report, for the award of charter),*
 - *Daystar University, Nairobi/Athi river, Machakos, Kenya – November 2005 (Consideration for University Charter/re-inspection),*
 - *Kenya Methodist University, Kaaga, Meru, Kenya – January & September 2005 (Consideration for University Charter),*
 - *Nairobi Evangelical Graduate School of Theology (NEGST), Karen, Nairobi, Kenya – May 2005 (Consideration for University Charter),*
 - *Scotts Theological College, Machakos, Kenya – August 2005 (Consideration for University Charter/re-inspection),*
 - *Australian Studies Institute (AUSSI), Westlands, Nairobi, Kenya – December 2005 (Consideration for accreditation as a Post Secondary Institution),*
 - *Kenya School of Professional Studies (KSPS), Parklands, Nairobi, Kenya - December 2005 (Consideration for accreditation as a Post Secondary Institution).*
- ***The year 2006***
 - *Nairobi Evangelical Graduate School of Theology (NEGST), Karen, Nairobi, Kenya – January 2006 (Consideration for University Charter),*
 - *Pan African Christian College (PACC), Kasarani, Nairobi, Kenya – April 2006 (Consideration for University Charter),*
 - *Augustana College, Kasarani, Nairobi, Kenya – April 2006 (Consideration for accreditation as a Post Secondary Institution),*
 - *Institute of Advanced Technology, Westlands, Nairobi, Kenya – April 2006 (Consideration for accreditation as a Post Secondary Institution),*
 - *Intel Computer College, Westlands, Nairobi, Kenya – April 2006 (Consideration for accreditation as a Post Secondary Institution),*
 - *Wiseman Trainers, Nairobi Central Business District, Kenya – May 2006 (Consideration for accreditation as a Post Secondary Institution).*

1.4.5 Consulting for organizations/institutions

Design Source

- *Proposed Gacuriro Estate 2020 Development of 600 houses (Executive Bungalows, maisonettes, and flats), with requisite commercial, educational and recreational centres, (With Design Source - Rwanda), Gacuriro, Kigali, Rwanda, For Caisse Social (May 2008.)*
- *Proposed Office Park Development, with offices and requisite shopping/commercial facilities (With Design Source - Rwanda), Kacyiru, Kigali, Rwanda, For Caisse Social (July 2008)*
- *Proposed Shopping Mall Development, (With Design Source - Rwanda), Onatracom main grounds off Kiyovu – near Nyamirambo, Kigali, Rwanda, For Onatracom (June 2008)*
- *Proposed Residential Flats Development, (With Design Source - Rwanda), Nyarutarama, Kigali, Rwanda, For Private investor (August 2008)*
- *Proposed John Smith - KIST Bookshop Development, (With Design Source - Rwanda), Kiyovu, Kigali, Rwanda, For John Smith Bookshops (September 2008)*
- *Proposed British Council Centre Development, (With Design Source), Kiyovu, Kigali, Rwanda, For British Council (May 2008)*

Ramani Consultants, Kingdom of Swaziland.

- *Recreational sports complex for the entire Manzini town, Kingdom of Swaziland.*
- *Shopping mall and high-rise office complex for ABC pty., ltd at Mbabane town, Kingdom of Swaziland.*
- *Proposed accommodation, and mess for the police college at Manzini town, Matsapha, Kingdom of Swaziland.*
- *Proposed supermarket at Shindwashini, Mbabane, Kingdom of Swaziland.*
- *Rehabilitation and Renovations of Nazarene hospital, Manzini, Kingdom of Swaziland.*
- *Renovations and redecorations to Bakeries at Manzini town, Matsapha Kingdom of Swaziland.*
- *Extensions of Dairy Industries at Manzini town, Matsapha, Kingdom of Swaziland.*
- *Two numbers, three bed-roomed houses for the agriculture board Kwaluseni en-route to Mablanya, Kingdom of Swaziland.*
- *Medical Diagnostic Laboratories at Manzini town, Matsapha for a Dr., Kariuki, Kingdom of Swaziland.*
- *Three bed-roomed house with master en-suite for a Mr. M. S. Dhlamini in Madonsa Township, Manzini, Kingdom of Swaziland.*
- *Butchery extensions and warehousing for Senator Potgieter at Manzini, Kingdom of Swaziland.*
- *Number, three bed-roomed houses for the Veterinary Department in the Lubombo region, at Mhlumeni, Mhlume, Simunye, Phoye among others, Kingdom of Swaziland.*
- *Shell Petrol Station at Sidvokodvo, Kingdom of Swaziland.*
- *Eight number, three & two bed-roomed flats for Councilor Matanzima in a two-storey building at Manzini, Kingdom of Swaziland.*
- *Shopping Mall at Mbabane for Mr. Simelane, Kingdom of Swaziland.*
- *Two number, three & four bed-roomed Bungalows in Fairview estate, Manzini, Kingdom of Swaziland.*
- *Three bed-roomed Bungalow for a Ms. Qondile Xhumalo at Manzini, Kingdom of Swaziland.*
- *Executive six en-suite bed-roomed, double car lockable garage residence, Kingdom of Swaziland.*
- *Proposed residence for the M.D Swazi Breweries near Mbabane, Kingdom of Swaziland.*
- *Executive residence for Dr. Vilakati of Manzini in Madonsa Township Manzini, Kingdom of Swaziland.*

- *Redecoration/ Renovation of a clubhouse/ -shop for the provident fund at Manzini, Kingdom of Swaziland.*
- *Four bed-roomed house for Dr. Kwikiliza, in Mbabane, Kingdom of Swaziland.*
- *Four bed-roomed house for a university Don at Durban, in the Republic of South Africa.*
- *Four bed-roomed residence with master ensuite for Senator Motsa Madonsa Township, Manzini Kingdom of Swaziland.*
- *Redecorations and Renovations to a shell Fuelling Station at Mhlumeni, Kingdom of Swaziland.*

Githunguri and Collins International.

- *One executive four bed-roomed residential bungalow with a two-car garage and a staff quarters, in Muthaiga, Nairobi, for Consolidated holdings ltd.*
- *One executive double storied four bed-roomed residential house with a two-car garage, an elaborate staff quarters and a solar heated swimming pool, in Muthaiga, Nairobi, for Consolidated holdings ltd.*
- *One executive double storied four bed-roomed residential house, with a staff quarters, in Uganda.*
- *Proposed thirty plus three bed-roomed Maisonettes at Madaraka in Nairobi for a private developer.*
- *Low-income residential estate for an initial sixty, two bed-roomed houses, with every two enjoying a shared compound in Thika Township, Kenya.*
- *Proposed laboratory for Johnson and Johnson ltd., in Industrial area, Nairobi, Kenya.*
- *Preparatory works on the rehabilitation of the multi-storey Extel-comms building in Kampala, Uganda.*
- *Renovations and redecorations of The Ark hotel bedroom suites, in Nyeri, for Signet hotels.*
- *Renovations and redecorations of the Mt. Kenya Safari Hotel in Naro-Moru, Nyeri, for Signet Hotels, horse stables and dining rooms, ablutions as well as bedroom suites.*
- *Phase four comprising primarily of five guest bedroom blocks and laundry at Safari park hotel, for Paradise Investments and Signet Hotels on a turnkey system, at Kasarani, Nairobi, Kenya.*

Ministry of Public Works

- *Mathare Hospital rehabilitation, Nairobi,*
- *Nairobi Provincial Commissioners office repartitioning on the 10th floor of Nyayo house, Nairobi.*
- *Nairobi Nyayo tea zone headquarters offices partitioning at Nyayo house, Nairobi.*
- *Partitioning of offices at the Attorney generals chambers, Nairobi.*
- *New offices for Kamiti sub-deport, for the department of Defense, Kahawa.*
- *Extensions to Materials branch, Ministry of Works offices, Nairobi.*
- *Voice of Kenya broadcasting headquarters in Nairobi, covering, perimeter fencing/ security walling, and Extensions to existing offices and ablutions.*
- *Re - roofing of the Police headquarters, Ulinzi house in Nairobi.*
- *Re - roofing of the Kenya institute of administration chapel, Nairobi.*
- *Probation department G.O.K, partitioning of offices in Uniafric house head office Nairobi; and construction of one classroom and workshops at the Eastlands hostels, Nairobi.*
- *defense staff compound (DSC), Karen, Nairobi, covering: Armed forces canteen organisation (AFCO); and Conversions of Sergeants mess to offices, canteen and cookhouse.*
- *Three type D staff houses with three bedrooms each, at the Co-operative College, Karen, Nairobi.*

- *Kabawa garrison in, covering the following tasks: Rehabilitation of the motor workshop; and extensions to the small arms workshop.*
- *Department of defense Headquarters, Nairobi, covering the tasks: General rehabilitation of floors and roofs at the juniors mess building; Re-roofing of the Hilton main offices block; Microfilming room; and extensions to the compound residence of the Chief of general staff (CGS).*

Most projects carried out during this period involved a lot of site measurements of existing buildings and specification matching with works already implemented. The schemes would by and large be awarded to up-coming contractors, who due to their lack of exposure demanded much supervision. Site visits were definitely once or twice per week. In literary all situations site visits would be lengthy, focusing on detail, to guarantee effective interpretation by staff on site.

Individual consultancies

- *Technical inspection and reporting for the rehabilitation and upgrading of Alliance hotels in the South Coast of Mombasa (Jadini Beach Hotel, Safari Beach Hotel, and Africana Sea lodge) (The Urban Logic – An Architecture and Planning Praxis), leading a team comprising of an Interior-Industrial Designer-Artist, Structural engineer, Environmental Health Engineer, Mechanical Engineer, and Electrical Engineer.*
- *Pre-Outline Proposal Planning establishment advice for the Wiseman University, (With the Urban Logic – An Architecture and Planning Praxis), at the Isinya site, Kajiado.*
- *Proposed Thika road Academy for primary level education, in Kahawa Sukari, Kenya.*
- *Proposed two-storey building carrying four two bed-roomed residential flats for Mr. Wilson Cheum at Ongata Rongai, Kenya.*
- *Proposed double storied three bed-roomed residential house for Mr. D Souza, with, a staff quarters and a Master en-suite, in Kiserian, Kenya.*
- *Proposed double storied three bed-roomed residential house for Ms. E. Otieli, with, a lockable single car garage, a staff quarters and a Master en-suite, in Kahawa Sukari, Kiambu, Kenya.*
- *Proposed double storied three bed-roomed residential house for Mr. G. K. Njenga, with, a staff quarters and a Master en-suite, in Karen, Nairobi, Kenya.*
- *Proposed four bed-roomed residential bungalow for Mr. P. Kiambo, with double car lockable garage, a Thingira-cum-brye and a Master en-suite, at Kamugunda in Kirinyaga, Kenya.*
- *Proposed double storied four bed-roomed residential house for Mr. P. Kiambo, with double car lockable garage, a staff quarters and a Master en-suite, in Kamugunda, Ngariama in Kirinyaga, Kenya.*
- *Proposed double storied four bed-roomed residential house for Mr. F. M. Mwihia, with double car lockable garage, a staff quarters and a Master en-suite, in Ridgenways, Nairobi, Kenya.*
- *Proposed four bed-roomed residential Bungalow for Mr. P. N. Kamau, with double car lockable garage, a staff quarters and a Master en-suite in Ngong, Kajiado district, Kenya.*
- *Proposed double storied four bed-roomed residential house for Mr. M. J. A. Emukule, with double car garage, and a Master en-suite, in Amagoro, Western Kenya.*
- *Proposed thirty numbers, one and two bed-roomed low-cost housing scheme and kindergarten for Mr. Mungai Njenga at Kinoo, Kiambu, Kenya.*
- *Proposed three bed-roomed residential bungalow for Mr. R. S. M. Maringa at Ngaru, Ndia in Kirinyaga, Kenya.*
- *Proposed three bungalows each three bed-roomed for Mr. L. M. Mugo in Ngong, Kajiado district, Kenya.*
- *Proposed four bed-roomed bungalow for Mr. Maina at Kerugoya, Ndia in Kirinyaga, Kenya.*
- *Conversions of an existing staff quarters cum garage, into a two bed-roomed house at Loresho for Scripture Union Africa, in Nairobi, Kenya.*

Schemes 5, 7, and 10, were constructed under my direct supervision either on labour contracts or on complete contract tender basis. The rest of the projects have either been implemented by the clients independently or have been left at a design stage. In all instances all these schemes were prepared and compiled to include working drawings, bills of quantities, specifications and general cost estimates. This entailed consultation with other professionals especially quantity surveyors and structural engineers.

1.4.6 Membership to acad/prof bodies

- *Fellow of the Architectural Association of Kenya (AAK).*
- *Member (g) of the Kenya Institute of Planners (KIP).*
- *Registered by the Board of Registration of Architects and Quantity Surveyors (BORAQS) of Kenya..*

1.4.7 Any other (Editorship/Peer review, external examiner, etc)

- *Referee, RDD-Regional Development Dialogue, Volume 32, No.1 Spring 2011. Climate Change and Poverty in Africa: Challenges and Initiatives. @United Nations Centre for Regional Dialogue, Nagoya, Japan.*
- *Referee for two other Journals (insert these, complete with dates).*

1.5 Administrative and Responsibilities

1.5.1 Recognized university administrative positions

- *Chairman of Department, Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), 1996-1998*
- *Ag., Vice Rector – Academic Affairs (Vice Chancellor, Academic Affairs), Kigali Institute of Science and Technology, Kigali, Rwanda, November 2007 – March 2009.*
- *Technical Expert & Master Trainer in Building Construction, an Infrastructural Planning & Development Expert, 2009. Workforce Development Authority (WDA), Kigali, Rwanda.*
- *Associate Project Team Leader for the Singapore Corporation Enterprise (SCE) & the Workforce Development Authority (WDA). 2010. Workforce Development Authority (WDA), Kigali, Rwanda.*
- *Senior Expert Project Management and Planning, 2011-2015. Advising on Intitutional organisation and development; establishing DACUM, Competency-based Demand-driven Curriculum Development, Examination & Certification; guidance on the TVET Qualification Framework, Quality Assurance and Accreditation and Training of Trainers; and design support for & coordination of WDA inputs into the World Bank funded Skills Development Project 2010-2015. Workforce Development Authority (WDA), Kigali, Rwanda.*

1.5.2 Other responsibilities in the University

- *Examinations officer, Department, Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), 1992-1994.*
- *Year master, Bachelor of Architecture year III, Department, Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), 1994 to 1996.*
- *Convenor Research Committee, Department, Department of Architecture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), 1992-1994.*

1.6 Community Engagements and Other Contributions

1.6.1 Research funding

- *World bank Skills Development Programme (SDP, valued at Usd 28.1) and Skills Development Fund (SDF, valued at Usd 5.1), Le Roche Kigali School development funding proposals, Integrated Polytechnic Regional Centre - IPRC Huye and IPRC Gishali with GoR funding, IPRC Musanze with Chinese funding (These would be confidential amounts. The Polytechnics compare well though with Kenyan Institutes of Technology in scale and composition and therefore budgets).*
- *Donor funding for projects in Public Works, Transport and Infrastructure Departments of the MoTIHUD (2016-2022) – generally amount to 75% of the annual portfolio budgets of approximately Kshs 100b, Kshs 150b and Kshs 290b respectively,*
- *Grant proposals (1)with faculty in Ardhi University of Tanzania (Jonas Tumsifu, Nelly John Babere & Regina John), Makerere University (Andrew Gilbert Were & Paul Isolo Mukwaya) & University of Nairobi (Fridah Wilumina Mugo, Rose Mumbua Musyoka & Charles Osengo), for Structural Transformation and Economic Growth (STEG) Larger Research Grants, 2023 – with a budget of £28,617 Sterling pounds.*
- *Grant proposal (1)with faculty in faculty in Liverpool University (Lawrence Ranald), Sheffield University (Faith Ng'eno) & Jomo Kenyatta University of Agriculture and Technology (Marhlyn Mumbua Musyimi), for International Science Partnership Fund financed by the British Government Official Development Assistance OBA Evidence-based Policy Development Grants 2025 – with budget limit of £150,000 Sterling pounds for a twelve-month duration.*

1.6.2 Community outreach

- *Corporate social responsibility.*
 - *Kisii, Nyamanengo – level III Hospital, valued at Kshs 30m.*
 - *Kilifi primary schools – Three in number supported with Makiga block making machines, each valued at Kshs,*
 - *Ngaru primary modern washrooms fed on rainwater harvesting (Kshs 3m), community library (Kshs 0.6m), Early Childhood Development (ECD,) and mature age classroom rehabilitation and modernisation (valued at Kshs 450k), classes 5 to 8 modern individual study desks and lockers (Kshs 0.5m), staff room individual computer tables, staff common room rehabilitation and furniture, basic cooking/ food storage equipment. (Kshs 0.2m).*
 - *Two Ngaru Secondary School dormitories (Kshs 20m @), administration block (Kshs 20m for the ground floor), basketball pitch (Kshs 0.1m).*
 - *Modern market, with trading sheds, stalls (Kshs 30m), borehole and elevated water storage (Kshs 15m), desalination plant, (Kshs 15m) loading docks and paved parking.*
 - *Polyclinic purchase of land and initial site preparation and basic material for the development (Kshs 5.5m).*
 - *Level III hospital purchase of land and development (Kshs 20m for patrial completion).*
- *Education support*
 - *Ngaru Primary School pupil mentoring programmes (pro bono/ex-gratis services).*
 - *Ngaru Girls Secondary School student mentoring programmes (pro bono/ex-gratis services).*
 - *Funding for needy secondary and university education students through:*
 - *Direct funding by self (Kshs 3m annually for 6 years).*
 - *Corporate funding partnerships (Kshs 6m annually for 6 years).*

1.6.3 Professional Affiliation & portfolios

- *Fellow of the Architectural Association of Kenya (FAAK) – Member of the College of Fellows (CoF), registered by the Board of Registration of Architects and Quantity Surveyors (BORAQS) & Licensed to practice; Member of the Kenya Institute of Planners (MKIP).*

1.6.4 Recognitions awards and honours

- *Elder of the Order of Burning Spears* (CBS. *A recognition of exceptional service by the government of Kenya.*
- *Distinguished Alumni of the University of Nairobi* (UoN), https://www.google.com/search?q=distinguished+alumni%2C+uon+prof.+maringa&og=cs_lcrp=EgZjaHJvbWUqCQqBECMYJxjq4jIJCA4QIxnGOoCMgkLARAjGCcY6gIyCQqCECMYJxjq4jIJCAMQIxnGOoCMgkIBBAjGCcY6gIyDwgFEC4YJxjHARjq4bjRAzIJCAYQIxnGOoCMgkIBx4jGCcY6gLSAQs0MTY5NjcyajFqN6gCCLACAQ&sourceid=chrome&ie=UTF-8
- *Distinguished Alumni of the Jomo Kenyatta University of Agriculture and Technology, (JKUAT)*, <https://discover.jkuat.ac.ke/alumnus-of-the-week-prof-arch-paul-mwangi-maringa/>
- *Chief guest (in regular GoK functions giving keynote addresses to sector meetings parastatal functions for NCA, NBI, KENHA, KERRA, KURA, KRB, KPA, KAA, KRC, KCAA, LAPSET, KMA, NTSA, NCTTCA, EASA, NTSA, NaMATA, RTI, AAI, and lunching transport, infrastructure and public works projects across the country (2016-2022).*
- *Full Scholarship award to study a Master's degree in Urban and Regional Planning at the Department of Urban and Regional Planning (DURP), Faculty of Architecture, Design and Development (FADD), University of Nairobi (UoN), 1990-91.*
- *Best overall student performance in studio portfolio design work for third year, 1984/85, at the Department of Architecture, Faculty of Architecture, Design and Development (ADD) University of Nairobi (UoN).*

1.6.5 Any other sub-category

Professional courses undertaken

- *Crown Agents training course in Dubai UAE on Bonds and Infrastructure Finance (21 - 25 March 2022).*
 - *Outline key requirements and decision-making rules for an effective investment appraisal.*
 - *Appreciate how capital markets have evolved, key features of how they work, and be ready to take advantage of what's being offered in the domestic and international markets.*
 - *Explain the different types of bonds available and understand the principles, process and mechanics of bond issuance.*
 - *Recognise when PPP arrangements may be suitable, what makes a PPP project bankable, and how PPPs may be financed.*
 - *Outline non-financial investment evaluation and ESG criteria, and how an infrastructure project provides value for money contributes to meeting SDGs and satisfies investor's needs.*
 - *Assess project financing offers and make well-founded recommendations and investment decisions.*
- *ABMC International / Amour Bright Management Concept International: Master class in Smart Cities & Urban Development – Master class in Smart Cities and Construction Project Management, in Cape Town, South Africa (February 15th – 12th May 2022).*

General overview of training:

- *Overview of smart cities: Characteristics, advantages, evolution, requirements, concept of energy and environment, urban simulation studies, urban decision support systems.*
- *Requirements for standardisation - features of smart cities: Need, criterial, output, result; ICT standardisation criteria; connecting characteristics to need; technology needs, market needs, societal needs; smart structure, education business and services.*
- *Components of urban mobility systems: Smart grids & components, solar panels, wind farms, energy storage, elective vehicles, fleet management , housing aspirations, smart meters, smart controllers, smart inverters, smart water technology, smart transportation, resilient energy systems, transformable apartments.*
- *Priority Activities for smart cities: markets (generating, expanding and greening the market), enablers (smart incorporated city planning and creative authority, economics, open data/guidelines/ interoperability, involving stakeholders).*

- *Smart cities planning and development: Becoming more intelligent about smart cities; planning techniques; constructing smart cities; estimating the roadmap, setting the smart base; evaluation of smart city outcomes; smart city needs; characteristics of smart cities; transformation to smart cities, city sample and total rating.*
- *Smart cities governance: Real-time decision making systems for city management; collaborative planning with visualised technology; virtual model citizen interaction; mobile augmented facilities; citizen driven smart city design; social media application for citizens of smart cities; decision making process support.*
- *Smart utilities: Communication at the heart of the modern utility; automation programmes, making the case; data management and analytics - the value of crunching numbers; looming security rules raising urgent questions for utilities; smart city monitoring and operation systems; road maps of smart cities; smart energy business concept; development trends in smart city technologies.*
- *Developing a smart city community: creating a safe community, situational awareness, efficiency planning, quality life, sustainable solutions, a healthy community, prosperity in the community, financial sustainability planning, sustainable communities, sustainable modelling, smart communities.*

Specific focus of training:

- *Building Information Modelling (BIM): What BIM is, how it helps, BIM standards, BIM dimensions, a BIM object, BIM process specifications, future of BIM.*
 - *Project context: Environmental factors, environmental techniques (political, economic, social, technical, legal & ecological – PESTLE), PESTLE analysis.*
 - *Programme management: Defining a programme, core components of programme management; Portfolio management: Defining portfolio management, portfolio lifecycle.*
 - *Procurement: Definition and general terms, provider selection and management; Logistics & Supply Chain Management: Defining logistics & supply chain, pertinent terms and concepts, principles of supply chain management, supply chain strategy, multi-year roadmap, customer needs, internal assessment, evolving technologies, tracking foreign and domestic competitors, megatrends, principles of sustainable supply chain.*
 - *Quality management: What it is, quality planning, assurance, control and continual improvement; Project management plan: levels, content, scope, route to planning success, product breakdown structure.*
 - *Estimating: What it is, techniques – analytical, comparative, parametric, three point, Programme Evaluation Review Technique (PERT).*
 - *Scheduling: Schedule management, critical path method; Resource management: Types & categories, resource scheduling, resource smoothing, resource levelling, resource allocation aggregation.*
 - *Risk management: Process, risk management plan, risk identification methods, risk register, assessment of risk, probability impact & grid, plan responses.*
 - *Cost Management: Budgeting & cost control, general terms of budgeting and cost; Earned value management: Earned value prerequisites, parameters, calculations, and equations; Change control: What it is and its process; Configuration management: What it is and its process.*
- *PM Excellence training course on project planning, project controls and primavera P6 training in London, UK (August 29th -September 2nd 2022).*
 - *Project controls, systems, processes and procedures: Baseline management, progress management, change management, reports management, project controls set up, planning tools and systems.*

- *Project planning: Importance of project planning, types of programmes, critical path method, relationship types, total float and the free float calculations, times risk allowance and terminal float; applying the NEC4 contract clauses in managing the programme; design management process and planning using the Engineering Progress Performance Reports (EPPR).*
- *Project planning processes based on the PRINCE2 model: How to develop a project programme from scratch.*
- *Tender/procurement process and planning: Tender evaluation (MEAT), tender programme evaluation, programme management evaluation, procurement activities to be included in the programme and tracked, planners role in supporting the whole procurement process - how to prepare a tender programme dealing with long lead items; Consents & permits, delay & forensic schedule analysis, undertaking assurances, resource levelling & smoothing.*
- *Change management. Risk management and how to undertake Quantitative Schedule Risk Analysis (QSRA): Testing & commissioning, programme quality, project controls reports, project programmes, asset completion & handover, earned value management, personal skills.*
- *Primavera P6 professional for planners: Planning and control using oracle @ Primavera P6 - Using Primavera functionality in order to effectively plan and control projects.*

1.7 Referee

- *Prof. Augustus N. Wali, Department of Mathematics & Actuarial Sciences, School of Science and Computing, Southeastern Kenya University, P. O. Box 170-90200, KITUI. E-mail: awali@seku.ac.ke Tel: +254 722 424 575.*
- *Prof. Arch. Mugwima Bernard Njuguna, Ph.D., M.A.A.K, M. ICOMOS, Centre for Urban Studies (CUST), School of Architecture and Building Sciences (SABS), Jomo Kenyatta University of Agriculture and Technology (JKUAT), P. O. Box 62000, NAIROBI. E-mail: mugwima@gmail.com Tel: +254 722 332 866.*
- *Ngari Gituku, MBS, Private Secretary to H.E. Mwai Kibaki, CGH, The Third President of the Republic of Kenya, P. O. Box 42141 – 00100, NAIROBI. Email: ngari.gituku@president.go.ke, ngari.gituku@gmail.com Tel: +254 (020) 7126000, +254 728250773.*
- *Arch. Sylvester Kiua Muli, Chairperson, Board of Registration of Architects and Quantity Surveyors, Kenya (BORAQS), Former Chief Architect, State Department for Public Works P. O. Box 9583 – 00100, NAIROBI. E-mail: mkiua@yahoo.com Tel: +254 722 292 434.*