

Academic Staff Profile

Personal Profile

Personal Details

<p>Name: Ms. Eunice Muthoni Kumunga Nationality: Kenyan Designation/ Position: Lecturer Employer: Kenyatta University- Department of Urban and Regional Planning Email: eunicem.kanoti@gmail.com Contact address: P. O. Box 46861- 00100, Nairobi, Kenya Area of specialization: Survey, urban and regional planning and environmental governance and management Research interest Water resources management, governance and management; Transportation planning; Rural planning Google scholar:</p>	
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Education and Training:

Completed PhD in Environmental Management and Governance, University of Nairobi- Wangari Maathai Institute (WMI) for Peace and Environment Studies (2016-2021)- **awaiting to graduate**

International Training Program in Applied Land Governance, Sweden Lantmateriet 17th September 2018- 30th March 2019

UN-Habitat International Leaders in Urban Governance Programme, Ministry of Foreign Affairs, Singapore- June 2017

Strategic Leadership Development Programme (SLDP), Kenya School of Government- August 2016

Sensitization on Public Procurement and Asset Disposal Act 2015 and Tender Evaluation Procedures Workshop, April 2016

Senior Management Course (SMC), Kenya School of Government- April 2016

Metro Management Knowledge Exchange Program Korea Research Institute for Human Settlements and the World Bank Group, S-Korea, December 2015

Infrastructure Assets Management, Ministry of Land, Housing & Urban Development, Nairobi, Kenya- October 2015

Diploma in Monitoring and Evaluation, Galilee International Management Institute- September 2015

Planning for Greener Cities and South-South Cooperation in Africa- (UN-Habitat, UNEP)- Tongji University-Shanghai China, March 2015

Finance for Non-Financial Managers, Kenya School of Government- November 2014

Diploma in Transport: Planning, Development and Management, Galilee International Management Institute- September 2014

Certificate in Transport Economics- Eastern and Southern Africa Management Institute (ESAMI)- Arusha Tanzania- February 2014

Certificate in Corporate Governance for directors- Centre for Corporate Governance- January 2014

Certificate in Environmental Impact Assessment & Environmental Audit, Africa Nazarene University, December 2012

Performance Management- Performance contracting Department- Office of the Prime Minister, Government of Kenya, Jan 2011

Certificate in Basic Computer, Ministry of Youth Affairs, 2008

Master of Arts in Planning, University of Nairobi, 2005

Bachelor of Science in Surveying, University of Nairobi, 1997

Kenya Certificate of Secondary Education, Kabare Girls High School, 1990

Kenya Certificate of Primary Education, Kiburu Primary School, 1986

Membership of Professional Societies:

Corporate Member, **Town and County Planners of Kenya-** Registered Planner

Corporate Member, **Kenya Institute of Planners-** Registered Planner

Lead Expert, **National Environmental and Management Authority**

Corporate Member, **Architectural Association of Kenya (MAAK)** -Registered Planner

Graduate Member, **Institution of surveyors of Kenya (I.S.K)** -Graduate Surveyor

Career Objectives

To work hard with maximum dedication for the achievement set objectives through emphasis on efficient utilization of my professional skills, knowledge and experience to full fill the duties and responsibilities with full integrity and zest.

Key qualifications in general

- Over 4 years' experience in preparation/ formulation of legislation, policies and guidelines including cabinet papers and their implementation
- Experience in management, coordination and administration of departments and preparation of regular reports on matters related to the county
- Have experience in preparation of budgets and formulation of projects
- Over 10 years' experience in Preparation, Implementation and Monitoring (through development control) Spatial Plans, Urban Strategic Development Plans, Urban Renewal, Master Plans and (Informal Sector) Slum Improvement/ Upgrading Plans.
- More than 23 years professional experience in several disciplines of land surveying ranging from engineering survey, control surveying, topographic mapping, photogrammetry, cadastral surveying, setting out, quantity surveying, construction supervision and application of GIS
- Experienced in preparation of digital base maps for various uses including for preparation of spatial and urban integrated plans, valuation and rating, Land Information management etc.
- Ability to develop, implement and monitor development plans, spatial plans, strategic plans and master plans.
- Ability to prepare and monitor Social Impact Assessment (SIA), Strategic Environmental Assessment (SEA), Environmental Impact Assessment/ Environmental Audit EIA/EA

- Experienced in environmental management and governance including preparation and review of relevant environmental related reports
- Have been involved in review of national legislations and policies of professionally related fields in collaboration with the review team
- Experienced in Research methodologies (both desk top and field research): Data collection, analysis (qualitative and quantitative) and information systems for feasibility and baseline surveys (topographical data, hydrological data, socio-economic data, health survey data, traffic surveys, among others using various software.
- Possess high presentation techniques using current technology
- Ability to work in a multi-disciplinary/ multi-sectoral team.
- Extensive experience in community liaison for planning and land/ environmental related issues including compulsory land acquisition and compensation
- Proficient in Microsoft Office 2007 (Ms Word, Excel, Project, Power point, Access and internet and email)
- Working Knowledge of SPSS, Arch- GIS, AutoCAD, QGIS
- Have experience in lecturing

December 2020 to date

Lecturer at Kenyatta University in the Department of Urban and Regional Planning

Administrative positions held:-Departmental Examination coordinator March 2021 to date

December 2017 to November 2020

Principal Physical planner, Department of Physical Planning; Ministry of Lands and Physical Planning

Key areas of responsibility

- Digitization of Ministry of Lands and Physical Planning records and business transactions programming
 - Preparation of Makindu local physical development plan
 - Preparation of Bungoma Town Action Plan
 - Review of Sectional properties Act
 - Review of Physical Planners Registration Act
 - Preparation of departmental contents for updating of Ministerial website
 - Assessment and provision of County Governments' planning needs
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July 2013 to November 2017

Worked as the County Executive Committee Member (CEC) in the department of Lands, Housing and Physical Planning- County Government of Kiambu

Key areas of responsibility

- Prepared valuation for rating bill for consideration by the county assembly and is now enacted as Kiambu County Valuation for Rating Act, 2016
- Proposed various legislation for consideration by the county assembly through domestication of the national government relevant legislations i.e. Physical Planning Bill, Survey Bill, Housing Bill
- Prepared various guidelines and cabinet papers:-
 - Formation of land administration committee, 2015
 - Formation of housing allocation and dispute resolution committee, 2015
 - Policy and regulation on the use of shipment containers within the county, 2015
 - Proposed guidelines for advertisements and signage, 2015
 - Guidelines for the approval of development applications, 2013
- Prepared Land Housing & Physical Planning Departmental Sector Plan

- Prepared of Integrated Strategic Urban Development Plans for sub county headquarters (12 plus 1)
- Prepared Kiambu County Spatial Plan
- Provided the county assembly with full and regular reports on matters relating to the county
- Implemented the county legislation and within the county, national legislation to the extent that the legislation so requires
- Secured public utility and public purpose land by excision, PDPs and registration
- Recovered illegally and irregularly acquired public utility and public purpose land
- Formulation, management and coordination of the department and its various directorates including recommending human resource and capacity building.
- Led departmental Capacity Assessment and Rationalization of the Public Service (CARPS) Programme for National and County Governments meant for departmental staffing and structuring

Completed county projects in Kiambu County Government

- Kiambu County Spatial Plan (2017-2026)
- Thika town Integrated Urban Strategic Development Plan (IUSDP) (2017-2021)
- Thika ISUDP Capital Investment Plan (2017-2021)
- Departmental Sector plan (2017-2021)
- GIS laboratory – Established in Kiambu Planning Head quarter office

Completed Laws, Policies and Guidelines

- Kiambu County Valuation and Rating Act, 2016- Gazetted
- Electronic Development Application Management (e-DAMS)- for vetting, approval of development application and for development control, 2016- Approved
- Policy guidelines for advertisements and signages, 2015- Pending Approval
- Policy and regulations on the use of ‘shipment containers’ within the county, 2014- Approved
- Guidelines on Development control, 2013- Approved

Initiated Projects in Kiambu County Government:

- Preparation of Integrated Strategic Urban Development Plans (ISUDP) (Kiambu, Githunguri, Gatundu South, Kimende, Kamwangi, Wangige- at base map stage
- Preparation of Integrated Strategic Urban Development Plans (ISUDP) (Ruiru, Juja, Kikuyu, Karuri, Limuru) - at first stakeholders stage
- Thika- Nairobi Super Highway Transportation Corridor Plan (1Km each side from centre line) - at base map stage
- Preparation of Physical Street Addressing for Thika and Kiambu towns-at proposal stage
- Umoja Informal Settlement Slum Improvement- at final draft and adoption stage
- Kiandutu Informal Settlement Slum Improvement and Upgrading Project- at consensus building stage
- Kiamburi and Shauri Yako Informal Settlements Slum Improvement-at consensus building stage
- Recovery of irregularly and illegally acquired public utility and public purpose land
- Securing public utility and public purpose land through excision vide Part Development Plans (PDPs)Safeguarding public utility/ purpose land through identification, survey Flagging and fencing
- Digitizing all land properties in Kiambu County- 75% complete
- Compulsory acquisition for various government projects

- Preparation of Property tax register
- Planning and land clinics for sensitizing members of public on planning matters and their rights and land transactions including registration processes
- Preparation of Kiambu County Water and Sewerage policy
- Revision of the land laws including Urban Areas and Cities Act, Omnibus land (amendment) Bill 2015, Community Land Bill 2015, Physical Planning Bill 2015)

July 2008 to June 2013

Worked with the Ministry of Lands as Physical planning officer in charge of larger Migori District

Key areas of responsibility

- Resident Government advisor on all matters pertaining to physical planning in Migori and Rongo, Nyatike, Awendo and Uriri, Kuria East and West Districts (Now Migori County)
- Provided advise on all local authorities on the use and development of land applications such as change/extension of user, subdivision and land amalgamation
- Formulated urban and regional physical development planning policies for the district
- Undertook physical planning research as the ones leading to preparation of local authorities metropolitan growth plans, slum upgrading and squatter settlements strategies
- Was responsible for financial management of the department's district budget allocation (Authority to Incur Expenditure (AIA) and Development Fund)
- Was responsible for liaison with staff in setting out annual performance targets and conducting their annual performance appraisal
- Prepared monthly performance returns based on performance contract agreed targets
- Prepared and execution of annual district work plans
- Initiated and co-ordinated preparation of physical planning district strategic plans, periodic reports and performance targets
- Was responsible for Directing and supervising all technical and subordinate staff
- Prepared local physical development plans including zoning/advisory plans through coordination of all government sectors, private sector and overall stakeholders in close collaboration with sister department's (District Lands Officer, Surveyor and Registrar)
- Facilitated excision of land through preparation of Part Development Plans (PDPs) as directed by law
- Reviewed reports on major development applications such as industrial development, transportation and comprehensive housing schemes, in regard to environmental impacts and audits
- Organized and conducted District and Municipal Physical Planning Liaison Committees

Projects undertaken as Migori District Planner

- Prepared Migori Town Local Physical Development plan- base map(2012-2013)
- Prepared Kegonga Local Physical Development Plan- Kuria East -base map(2011-2012)
- Prepared Kibigori plantation Settlement Scheme-Kisumu (Advisory Plan) (2011)
- Prepared Awendo Town Local Physical Development Plan (2010-2011)
- Prepared Special Economic Zone SEZ (Nyanza Region Plan) (2010)
- Prepared Kisumu Metropolitan Integrated Structure Plan (2009-2010)
- Prepared Macalder Town Local Physical Development Plan (2009-2010)

- Prepared Rongo Town Local Physical Development Plan (2008-2009)

October 2006 to May 2013

Worked with the Ministry of Lands as Physical Planning officer in the Department of Physical Planning Headquarter- Nairobi

Key responsibilities

- Design of strategies, policies and guidelines for land resource use and development, compiling database and analysis of land use
- Review of regional physical planning policy and sectoral/ regional development plans and studies
- Review of Environmental Impact Assessment and Audit Reports
- Processing of development and redevelopment applications for issuance of compliance certificates for petroleum outlets, land subdivisions and building plans, change of user, extension of lease and approval of Part Development Plans (PDPs); and site inspections
- Provided evidence for appeals in planning permits
- Facilitation of stakeholders/public consultation meetings with local authorities, civic leaders, developers, land owners and other professionals
- Prepared budget estimates for various projects
- Slum upgrading and resettlement of squatters

Projects undertaken as Physical planning officer in the Department of Physical Planning Headquarter- Nairobi

- Prepared Ngong/ Ngong zoning plan
- Prepared Kiserian Local Physical Development Plan
- Prepared Hill Area Local Physical Development Plan
- Prepared Kitengela - Isinya Zoning plan
- Prepared Ongata Rongai Local Physical Development Plan
- Prepared Mweiga Informal Settlement Plan (Nyeri)
- Prepared Kibera Slum Upgrading Programme (Nairobi)

2005 to 2007 (Intermittently)

Part Time Lecturer, Jomo Kenyatta University of Agriculture and Technology (JKUAT)
Department of Geomatics Engineering

Key responsibilities

- Lectured in Urban and Regional Planning, Surveying, Technical Drawing & Cartographic Techniques and Geographic Information Systems (GIS).
- Coordinated course works for practical experience
- Organised seminars and tutorials for students.

Sept 2004 – Feb 2005

Worked with Geokar Consultants as a surveyor and attaché physical planner

Key Responsibilities

- Conducted traffic studies
- Responsible for collection and analysis of traffic data

- Carried out analysis of regional socio-economic data and projected the future growth scenarios which formed inputs to traffic projections and economic analysis.
- Prepared development plan to arise due to the effect of the proposed road-generated population and its interaction to development
- Conducted traffic surveys in Nairobi including Home Interview Surveys, cordon/screen line surveys (origin-destination and classified link counts), junction counts, travel speed surveys(GPS/Floating vehicle), parking surveys, queuing and public transport surveys (on-board surveys, stated preference interviews)
- Carried out inventory of missing traffic links
- Guided household data collection and report writing related to Nairobi City and Metropolitan Transport Master Plan (supervised a team of 20 research assistants) in 8 divisions of Nairobi City;
- Liaised with stakeholders, such as the Kenya Police, involved in the preparation of the Nairobi Urban Transport Master Plan (NUTRANS), through participatory focus group discussions
- Prepared mini financial audits and budget statements for enumerators weekly salaries
- Recruited and Trained field research assistants on household data collection and traffic surveys
- Coordinated traffic surveys and analysis for the West Lands Roundabout street lighting Pilot Project
- Carried out inventory of the road network including right of way for utilities highway alignments

Projects undertaken as a surveyor and attaché physical planner

- Transportation Planning, Feasibility Study and Detailed Engineering Design of the Suna – Kehancha - Ngorengore Road
- Study on the Nairobi Urban Transport Master Plan for the Nairobi Metropolitan Area (NUTRANS)

May 2001 to Jul 2004 (Intermittently)

Surveyor, Geokar Consultants Ltd (Kenya)

Key responsibilities

- Carried out topographical surveys
- Prepared Digital Terrain Models (DTMs) using Remote Sensing equipment, photographs or satellite images and from direct survey
- Involved in pile setting out
- Carried out Land Parcel Survey and As- built record survey
- Provided info for civil works- cross-sections, ground modelling cut and fill calculations of areas and volumes
- Gathered, processed analysed visualized and managed spatial related data through Geomatic Engineering
- Contour interpolation through use of photogrammetry- steleoplotter
- Responsible for monitoring archiving and maintaining construction data

Feb – Dec 2000

Executive Officer, Institution of Surveyors of Kenya (ISK)

Key Responsibilities

- Responsible for overall supervision of the Institution's employees

- Created and managed uniform record-keeping systems
- Acted as liaison to other institutions and agencies
- Organized seminars and workshops
- Coordinated the institution's professional exams
- Determined the objectives of meetings and action plans of the institution
- Made recommendations on budget priorities.

Nov 98 – Jan 2000

Assistant Surveyor with Country Travel Maps

Key responsibilities

- Conducted topographic surveys
- Established/marked property fixed boundaries for both private and public lands including subdivision and relocation of boundaries
- Carried out various route surveys for roads and sewer lines
- Carried out Engineering Surveys
- Prepared Digital Elevation Models DEMs
- Setting out control survey
- Supervised the team of technicians

Journal publications

- 1) Kumunga E. M., T. C. Ndiwa, and N. J. Muthama (2020). Towards a Framework for Monitoring and Communicating Water Resources Sustainability: A Case Study of Rwamuthambi Sub Catchment Area, Kenya *J. sustain. environ. peace* Vol 3 (1) pp 21–33
- 2) Kumunga E M., Ndiwa T C., Nzioka J M (2020) Wetland transformation through Water Resource Users Association; The case of Rwamuthambi Sub Catchment area, Kenya *Journal of Wetlands Research* Vol. 22 (3) pp. 200-216 DOI <https://doi.org/10.17663/JWR.2020.22.3.200>
- 3) Kumunga E M., Ndiwa T C., Nzioka J M (2020) Water Resources Governance Dynamics: A case of Rwamuthambi Sub-Catchment, Kenya *East African Journal of Science, Technology and Innovation*, Vol. 2 (1) <https://doi.org/10.37425/eajsti.v2i1.202>