

THE CURRICULUM VITAE

Of

Prof. Galcano Canny Mulaku, Ph.D



Prof. Galcano Canny Mulaku, Ph.D

A: PERSONAL DETAILS

- 1. Name:** Prof. Galcano Canny Mulaku
- 2. Date and place of birth:** 20th November 1955 at Emakwara village, Butula District, Busia County, Western Kenya.
- 3. Official Contacts:** Department of Geospatial and Space Technology, School of Engineering, University of Nairobi, P.O. Box 30197-00100 GPO, Nairobi, KENYA.
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- 4. Private contacts:** P.O. Box 69568 – 00400 TOM MBOYA, Nairobi, KENYA.
Mobile Tel: 0725 – 873347, e-mail: gmulaku@yahoo.com
- 5. Marital Status:** Married with four children

B: EDUCATION

1. Pre-University Education

- 1962-68 Attended Buhuyi Primary School, Busia; Obtained C.P.E. in 1968
- 1969-1972 Attended Butula Secondary School, Busia; Obtained E.A.C.E. in 1972 – Division 1, 10 points.
- 1973 - 1974 Attended Strathmore College, Nairobi; Obtained E.A.A.C.E. in 1974 – 4 principals, 1 subsidiary.

2. University Education

- 1975 – 1978 Attended University of Nairobi, obtained B.Sc. (Surveying & Photogrammetry), Upper Second Class Honours, in 1978
- 1981 - 1982 Attended International Institute for Aerial Survey and Earth sciences (ITC) in Enschede, the Netherlands; Obtained Postgraduate Diploma in Photogrammetry in 1982.
- 1985 – 1987 Attended University of Calgary, Canada. Obtained M.Sc. (Surveying Engineering) in 1987, specializing in Land Information Systems. Title of Thesis: *Map Data Digitizing, Editing and Automatic Hydrological Network Reconstruction*. Supervisor: Prof. Graham Lodwick.
- 1992 – 1995 Attended University of New Brunswick, Canada. Obtained Ph.D. (Surveying Engineering), specializing in Geographic Information Systems/Land Information Management. Title of Thesis: *Concepts for PID Improvement*. Supervisor: Prof. John McLaughlin.

3. Training Courses Attended

- 1991 Attended a course, "Mapping using Spot Satellite Data" at the Regional Centre for Services in Surveying, Mapping and Remote Sensing in Nairobi.
- 1993 Attended a Workshop on University Teaching Methodology at the University of New Brunswick, Canada.
- 1997 Attended the 7th United Nations International Training Programme on Remote Sensing Education for Educators at the University of Stockholm, Sweden.
- 2003 Attended University of Nairobi training workshop on Distance Learning, at *The Ark*, Nyeri, Kenya.

- 2003 Attended the 2nd AIEJ/UNESCO International Education Programme on Global Tetralemma at Mie University, Japan.
- 2007 Attended Pedagogy and Rapid Results Initiative training at the University of Nairobi.
- 2009 Attended a short course on Google mapping at Google Kenya, Nairobi.
- 2010 Attended Strategic Leadership and Change Management Programme for Directors of State Corporations at the Kenya Institute of Administration, Nairobi.
- 2014 Attended a training course on Ph.D supervision at the University of Nairobi.
- 2015 Attended a workshop on the induction of Board members of State Corporations to *Mwongozo*, the code of Governance for State Corporations.
- 2016 Attended a short course on land governance and alternative dispute resolution in Entebbe, Uganda, put on by the Eastern Africa Land Administration Network (EALAN).
- 2020 -2021 Diverse courses on on-line teaching and asynchronous learning.

C: EMPLOYMENT RECORD

Sept.2014 – Present: Professor, Department of Geospatial and Space Technology, University of Nairobi. ***I teach, research and offer consultancy in the areas of Land Surveying, Geo- Information Systems, Cadastre and Spatial Data Infrastructure .***

Apr. 2009 – Aug. 2014: Associate Professor, Department of Geospatial and Space Technology, University of Nairobi.

- Nov. 2008 – Mar. 2009: Associate Professor and **Acting Dean**, School of Engineering, University of Nairobi.
- Dec. 2005 – Oct. 2008: Associate Professor, Department of Geospatial and Space Technology, University of Nairobi.
- Mar 2005 – Nov. 2005; Senior Lecturer, Department of Surveying, University of Nairobi.
- Feb. 2003 – Feb. 2005: Senior Lecturer and **Dean**, Faculty of Engineering, University of Nairobi.
- Jan. 2002 – Jan. 2003 Senior Lecturer, Department of Surveying, University of Nairobi; Visiting Lecturer, Moi University; Visiting Lecturer, Jomo Kenyatta University of Agriculture and Technology.
- Nov. 1998 – Dec. 2001 Senior Lecturer and **Chairman**, Department of Surveying, University of Nairobi.
- Dec. 1996 – Oct. 1998 Senior Lecturer, Department of Surveying, University of Nairobi.
Visiting Lecturer, School of Environmental Studies, Moi University.
- Sept. 1988 - Nov.1996 Lecturer, Department of Surveying, University of Nairobi; Teaching Assistant, University of New Brunswick (during my Ph.D studies).
- Nov. 1987 – Aug. 1988 Senior Lecturer, Kenya Polytechnic.
- Jan. 1983 – Oct. 1987 Lecturer Kenya Polytechnic.
Part-time Lecturer, Department of Surveying, University of Nairobi.
- July 1978 – Dec.1982 Staff Surveyor, Survey of Kenya; Instructor, Survey of Kenya Training School; Part-time Lecturer, Kenya Polytechnic.

D: UNIVERSITY ADMINISTRATIVE AND OTHER SERVICE

1. **Acting Dean**, School of Engineering, Nov. 2008 – Mar. 2009.
2. **Dean**, Faculty of Engineering, Feb. 2003 to Feb 2005.
3. **Chairman**, Department of Surveying, Nov. 1998 to Dec. 2001.
4. Member of Senate; Chairman of School Board of Engineering and School of Engineering Board of Examiners (When I was Dean).
5. Chairman, 3rd Kenya Universities Exhibition Committee, 2004.
6. Member, Senate Committee on future graduation ceremonies, 2004.
7. Member, Senate committee on the Parklands campus crisis, 2004.
8. Member, College of Architecture and Engineering Academic Board.
9. Member, School of Engineering Board
10. Departmental Co-ordinator, industrial attachments

E: ADMINISTRATIVE ACHIEVEMENTS

As Chairman of Department

1. Overhauled the Management Information System in the department.
2. Re-started departmental curriculum review, resulting in the current B.Sc (Geospatial Engineering) curriculum.
3. Negotiated for a grant of GIS software worth Ksh.40 Million then, from Esri Corp.(USA), the world leader in GIS software development. This was used to set up the current departmental GIS laboratory, which is the de-facto GIS training centre in the university.
4. Started “Leavers Day”, a day of interaction between the final year students and potential employers, which continues to this day.
5. Led the department into two major conferences; *The International Conference on Spatial Information for Sustainable Development* (Sponsored by the International Federation of Surveyors (FIG), Institution of Surveyors (ISK) and UN – Habitat and the first major FIG event in Africa), and the *Africa GIS Conference 2001*. At the

latter conference, I was privileged to meet Jack Dangermond, the President of Esri Corp. and my interaction with him resulted in the grant stated at (3) above.

6. Got the department to become an academic member of FIG , a mark of distinction in the Surveying academia globally.
7. Started documentation of the department's history.

As Dean of Faculty / School

1. Re-started curriculum review in all Engineering departments outside my own. Facilitated the development and launch of the M.Sc(GIS) programme in the department of Geospatial & Space Technology and the M.Sc(Energy Management) in the department of Mechanical & Manufacturing Engineering. Both programmes continue to run well.
2. Overhauled, probably for the first time, the management Information System at the Dean's office.
3. Compiled, again probably for the first time, a comprehensive document, indicating what equipment the Faculty needed to get to the state of the art.
4. Negotiated and obtained support from industry partners as follows:

Kencell – Student Scholarship of 750,000/- (See press cuttings overleaf).

MUDA – 7 computers, distributed to the departments.

Davis & Shirliff – The current Davis & Shirliff university prizes for Engineering students.

Safaricom – Base Station behind the AW building and attachments for students of Electrical & Information Engineering.

Siemens – 100,000/- to support the Electrical & Information Engineering department.

5. Chaired a JAB sub-committee of Deans of Engineering on the accreditation of engineering programmes by the then Engineers Registration Board (ERB).

E: SUPERVISION OF STUDENTS

1. Doctoral Students

- 2004 - 2010 Andrew T. Imwati, **Ph.D.**, University of Nairobi.
2006 - 2011 George W. Eshiamwata, **Ph.D.**, University of Nairobi.
2012 - Joseph M. Panyako, **Ph.D.**, University of Nairobi (**Deceased**)
2013 - 2017 Collins M. Mwange, **Ph.D.**, University of Nairobi
2016 - 2020 Sabina N. Baariu, **Ph.D.**, University of Nairobi
2019- Anastacia M. Wahome, **Ph.D.**, University of Nairobi
2020- Susan A. Okeyo, **Ph.D.**, University of Nairobi

2. Masters Students

- 1995 – 1996 Faith N. Kamiru, **M.Sc.**, University of Nairobi
1996 – 2000 Herbert C. Lwangu, **M.Phil.**, Moi University
1997 – 2000 Jenipher K. Kinoti, **M.Phil.**, Moi University
1997 – 1999 Tom A. Esipila, **M.Phil.**, Moi University
2001 – 2003 Isaiah K. Bii, **M.Phil.**, Moi University
2002 – 2004 David N. Siriba, **M.Sc.**, University of Nairobi
2004 – 2006 Stella N. Musembi, **M.Sc.**, University of Nairobi
2006 – 2008 George T. O. Odero, **M.Sc.**, University of Nairobi
2006 – 2008 David M. Kariithi, **M.Sc.**, University of Nairobi
2007 – 2009 George Okusimba, **M.Sc.**, University of Nairobi
2007 – 2009 Amos I. Shibusse, **M.Sc.**, University of Nairobi
2009 – 2011 Elizaphan M. Kibe, **M.Sc.**, University of Nairobi
2010 – 2012 Richard N. Mwangi, **M.Sc.**, University of Nairobi
2011 - 2013 David W. Muthami, **M.Sc.**, University of Nairobi.
2012 – 2014 John M. Maina, **M.Sc.**, University of Nairobi.
2012 – 2014 Maureen W. Munyagia, **M.Sc.**, University of Nairobi.
2013 - 2015 Sabina N. Baariu, **M.Sc.**, University of Nairobi.
2013 – 2015 Mary O. Gwena, **M.Sc.**, University of Nairobi.
2014 – 2017 Edgar Selebwa, **M.Sc.**, University of Nairobi.
2014 - 2017 Ruth T. Nyaundi, **M.Sc.**, University of Nairobi.

2015 - 2017 Mildred M. Ambani, M.Sc, University of Nairobi
2016 – 2018 Stacey R. Isumba, M.Sc, University of Nairobi
2017- 2019 Susan A. Okeyo, M.Sc, University of Nairobi
2017-2019 Regina W. Ng’ang’a, M.Sc, University of Nairobi
2017-2019 Kevin O. Namudeche, M.Sc, University of Nairobi
2017-2019 Bernard O. Ooko, M.Sc, University of Nairobi
2016-2019 Jackline Rateng’, M.Sc, University of Nairobi
2018-2020 Peter Hongo, M.Sc, University of Nairobi
2018-2020 Josphat Nduati, M.Sc, University of Nairobi
2018-2020 Adan Mohammed, M.Sc, University of Nairobi

3. Undergraduate Students

1991 – 2021: **72 B.Sc. final year projects** supervised at the University of Nairobi.

F: GRADUATE THESES AND REPORTS EXAMINED

Ph.D Theses

1. Mwea, S.K. (2001): Studies of Flexible Road and Airport Pavements in Kenya, *Ph.D Thesis*, Department of Civil Engineering, University of Nairobi, Nairobi, Kenya. **[BOARD MEMBER]**
2. Imwati, A.T. (2008): Exploring the use of modern geo-information systems and participatory approaches in planning peri-urban settlements: A case study of Mlolongo Settlement, Nairobi, Kenya, *Ph.D Thesis*, Department of Urban and Regional Planning, University of Nairobi, Nairobi, Kenya. **[BOARD MEMBER]**
3. Eshiamwata, G.W. (2011): Monitoring Habitat at Key Biodiversity sites in Africa using Remote Sensing: Land Cover Change at Important Bird Areas in Eastern Africa, *Ph.D Thesis*,

Department of Geospatial & Space Technology, University of Nairobi, Kenya **[INTERNAL EXAMINER]**.

- 4.Kipkiror L.J. (2016): Identification of an extra-terrestrial impact crater, Case study of Silali Crater, Kenya, *D.Phil Thesis*, School of Environmental Studies, University of Eldoret, Kenya **[EXTERNAL EXAMINER]**
- 5.Mwange C.M. (2017): Spatial Data Infrastructure in Africa: A Technical And institutional Analysis, Ph.D Thesis, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya **[INTERNAL EXAMINER]**
- 6.Baariu S.N. (2020): Analysis and Modelling of Cartographic Services Among the East African Community Member States, Ph.D Thesis, Department of Geospatial &Space Technology, University of Nairobi,, Nairobi, Kenya **[INTERNAL EXAMINER]**
- 7.Wabwire E.O. (2020) : Spatio-Temporal climate change and its Associated effects on household livelihoods in the Lake Victoria basin of Kenya **[INTERNAL EXAMINER]**

Masters Theses / Reports

1. Kamiru, F.N. (1996): Geoinformatics in national resource management: A case study of the Upper Uwaso Nyiro catchment, *M.Sc. Thesis*, Department of Surveying, University of Nairobi,Nairobi, Kenya.**[INTERNAL EXAMINER]**
2. Owili, L.O. (1996) Application of GIS in mapping and management of flood prone areas in Nyando Division, Kano Plains, Nyanza Province, Kenya, *M.Phil Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya.**[INTERNAL EXAMINER]**
3. Olwero, J.G.N. (1997) Some aspects of drought in the Lake Victoria Basin, Kenya,*M.Phil. Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya.**[INTERNAL EXAMINER]**

4. Siriba, D.N. (2003) Towards a National Spatial Data Infrastructure (NSDI): Inventory and Evaluation of existing geospatial datasets and systems in Kenya, *M.Sc. Thesis*, Department of Surveying, University of Nairobi, Nairobi, Kenya
.[INTERNAL EXAMINER]
5. Musembi, S.N. (2006) Visualizing the spatial – temporal patterns of crime in Nairobi, *M.Sc Thesis*, Department of Surveying, University of Nairobi, Nairobi, Kenya.[INTERNAL EXAMINER]
6. Kipkiror, L.J. (2007): Assessment of water availability in arid and arid lands using remote sensing: A case study of the Lagam Escarpment, Kerio Valley, Marakwet District, Kenya, *M.Phil. Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya. [**EXTERNAL EXAMINER**]
7. Odero, G.T.O. (2008): Development of a Prototype Land Information System: A case study of Athi River Area, Nairobi, *M.Sc Report*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya.
[INTERNAL EXAMINER]
- 8.Kariithi D.M. (2008): Application of GPS and GIS in dairy livestock Management: Case study of the Mt. Kenya region, *M.Sc Report*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
9. Obura, J.O. (2008): Visualization of Urban Growth: A case study of Nairobi, Kenya, *M.Sc Thesis*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya.
[INTERNAL EXAMINER]
- 10.Chebet, C. (2008): Land use and land cover changes around Kakamega And their implications for the conservation of the forest, *M.Phil Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya. [**EXTERNAL EXAMINER**].
11. Songok, K.C. (2008): Effects of Land use/Land cover on the stream

flow in the Kimondi-Kingwal catchment, Kenya, *M.Phil Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya [**EXTERNAL EXAMINER**].

12. Mwanikah, M. (2008): Land use dynamics and impacts on Conservation of Dakatcha and Marafa forests in Malindi District, *M.Phil Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya [**EXTERNAL EXAMINER**].

13. Ngarari, M.M. (2009): Assessing potential of small scale aquaculture Embu District using GIS and remote sensing, *M.Phil Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya [**EXTERNAL EXAMINER**].

14. Soi, C.N. (2009): Spatial – Temporal analysis of shoreline movement: Causes and effects on development at River Sabaki Estuary (1973 – 2000), *M.Phil Thesis*, School of Environmental Studies, Moi University, Kenya [**EXTERNAL EXAMINER**].

15. Cheserek, C.B. (2009): Using Normalized Difference Vegetation Index to correlate impacts of soil erosion on tea production in Timbilil Tea Estate, Kericho, *M.Phil Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya [**EXTERNAL EXAMINER**].

16. Shibusse A.I. (2009): Web-phone land information and billing system:
Getting the registry on your mobile phone, *M.Sc Report*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya. [**INTERNAL EXAMINER**]

17. Okusimba, G. (2009): Application of Google Earth in refugee camp Management: Case study of Dadaab refugee camps, *M.Sc Report*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya. [**INTERNAL EXAMINER**]

18. Muchemi M.S. (2010): Impacts of beach development on sea turtle nesting habitats on the Mombasa – Kilifi shoreline, Kenya, *M.Phil Thesis*, School of Environmental Studies, Moi University, Eldoret, Kenya [**EXTERNAL EXAMINER**].
19. Munialo, E.W. (2011): Predicting the pattern of urban residential expansion in Eldoret municipality using GIS and remote sensing, *M.Phil Thesis*, School of Environmental Studies, Chepkoilel University College, Eldoret, Kenya [**EXTERNAL EXAMINER**].
20. Kibe, E.M. (2011): Use of GIS to enhance revenue collection in Local Government: Case study of Town Council of Kilifi, *M.Sc Report*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
21. Ndung'u, G.N. (2011): Analyzing degradation and re-habilitation of Southern Mau Forest using GIS and remote sensing, *M.Sc Report*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
22. Mwangi, R.N. (2012): On-line cadastre: Case study of Nyeri County, *M.Sc Report*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
23. Kyuvi, C.M. (2012): Use of GIS to map anti-retroviral need and Accessibility: Case study of Nairobi west District, *M.Sc Report*, Department of Geospatial & Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
24. Chege M. G. (2012): Assessing the rate of deforestation in the gazetted Maji Mazuri forest, *M.Phil Thesis*, School of Environmental Studies, Chepkoilel University College, Eldoret, Kenya [**EXTERNAL EXAMINER**].

25. Mutambu, A.R. (2013): Optimization of mobile antenna location using GIS techniques in Nandi County, Kenya; *M.Phil Thesis*, School of Environmental Studies, University of Eldoret, Eldoret, Kenya [EXTERNAL EXAMINER]
26. Mutisya, C.M. (2014): Developing a Spatial Data Infrastructure for use by the military: Case study of the Kenya Defence Forces. *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
27. Ngondi, S.S. (2014): Web based GIS borehole information management system: A case study of Wajir county, *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
28. Maina, J.M. (2014): A GIS-Based investigation of the effects of physical access on primary school enrolment: A case study of Loitokitok County, , *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
29. Munyagia, M.W. (2014): Application of GIS and Remote Sensing in land use zoning: A case study of Turkana County, *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER]
30. Baariu, S.N. (2015): Application of Remote Sensing and GIS in Khat (Miraa) Mapping : Case study of Igembe sub-county, Meru county, Kenya, *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER].
31. Gwena, M.A. O. (2015): Use of Geospatial Technology in Rain water Harvesting: Case study of Karapul sub-location, Siaya county, Kenya, *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER].
32. Ogola, D.P.O. (2015): GIS in Foreign Nationals Management: Spatial analysis of distribution and socio-economic impacts of immigration in Nairobi, *M.Sc Report*, Department of Geospatial and

Space Technology, University of Nairobi, Nairobi, Kenya.
[INTERNAL EXAMINER].

33. Odida, F.O. (2015): Use of GIS in Conflict Mapping: Case study of Rift Valley Province, *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya.
[INTERNAL EXAMINER].

34. Chepkosgei, E. (2015): Mapping of Slope Failure Susceptibility Using Remotely Sensed Imagery and GIS along the Nandi Escarpment within Kabras Division, Kakamega North Sub-County, Kenya, *M.Phil Thesis*, School of Environmental Studies, University of Eldoret, Eldoret , Kenya [EXTERNAL EXAMINER]

35. Selebwa, E. (2017): Use of GIS to assess the impact of re-location of project affected persons : Case study of the railway reserve in in Soweto East, Kibera, *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya.
[INTERNAL EXAMINER].

36. Ambani, M.(2017): GIS assessment of environmental footprints of the standard gauge railway (SGR) on Nairobi national park, Kenya. *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER].

37. Nyaundi, R.(2017): Assessment of the effects of climate change on maize production using GIS: Case study of rainfall variation in Trans-Nzoia County, *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya.
[INTERNAL EXAMINER].

38. Isumba, S.(2018): Creation of a digital database for Preliminary Index Diagrams (PIDs): case study of Athiru/Ruujine/Ndoleli Adjudication Section, Meru County. *M.Sc Report*, Department of Geospatial and Space Technology, University of Nairobi, Nairobi, Kenya. [INTERNAL EXAMINER].

G: REFEREED PUBLICATIONS

- 1. Hongo P.O. and Mulaku G.C. (2021):** Flooding of Lake Nakuru National Park and its effects on the resident wildlife, **Paper accepted for publication in the Journal of Geographic Information System [ISSN: 2151-1969]**

- 2. Ambani M.M. and Mulaku G.C. (2021):** GIS assessment of environmental footprints of the standard gauge railway (SGR) on Nairobi National Park, Kenya, **Paper Published in the Journal of Environmental Protection, Vol.12, No. 10, October 2021 [ISSN: 2327-4344]**

- 3. Okeyo S.A. and Mulaku G.C. (2020):** Crop insurance based on Satellite remote sensing: Case of Migori County, Kenya. **Paper published in *Advances in Remote Sensing*, 2020,9, pp.1-11, DOI:10.4236/ars.202091001 [ISSN 2169-2688].**

- 4. Baariu S.N., Mulaku G.C. and Siriba, D.N. (2019):** The East African Community Cartographic Service Upgrade Proposal and Roadmap, **Paper published in *Geoinformatics and Geostatistics: An Overview*, 7:2, August 2019.**

- 5. Baariu S.N., Mulaku G.C. and Siriba, D.N. (2019):** State of Cartographic services among the East African Community member states. **Paper published in the *Journal of Geographic Information System* , 11, February 2019, pp. 56–65, DOI:10.4236/jgis.2019.111005 [ISSN 2151 – 1969].**

- 6. Mwange C.M., Mulaku G.C. and Siriba D.N. (2018):** Reviewing the status of national spatial data infrastructures in Africa. **Paper published in the *Survey Review Journal (UK) online*, Vol.30, issue 360, pp.191-200, DOI:10.1080/00396265.2016.1259720.**

7. **Mwange C.M., Mulaku G.C. and Siriba D.N. (2018):** Technology Trends for Spatial Data Infrastructure in Africa, **Paper published in *Civil Engineering and Architecture Journal*, Vol.6, No.4, pp. 189-204, DOI:10.13189/cea.2018.060402**
8. **Mwange C.M., Mulaku G.C. and Siriba D.N. (2017):** Relaunching the Kenya National Spatial Data Infrastructure, **Paper published in the *International Journal of Spatial Data Infrastructures Research*, 2017, Vol.12, pp.172-190, DOI: 10.2902/1725-0463.2017.12.art9**
9. **Wawa, A. and Mulaku, G.C. (2015):** Noise Pollution Mapping in Nairobi, Kenya. **Paper published in the *Journal of Geographic Information System (USA)*, Vol.7, October 2015, pp. 486 – 497 [ISSN 2151 – 1969].**
10. **Baariu, S.N. and Mulaku, G.C. (2015):** Mapping Khat (Miraa) by Remote Sensing in Meru County, Kenya, **Paper published in the *International Journal of Remote Sensing Applications (USA)* Vol. 5, pp. 54-61 [ISSN 2226-4353].**
11. **Mulaku, G.C. (2013):** Professionalism in GIS : International aspects of the Certification Debate, **Paper published in the *Journal of Geographic Information System (USA)*, Vol.5, No.4, August 2013, pp. 347 – 353 [ISSN 2151 – 1969].**
12. **Siriba, D.N., Voss, W. and Mulaku, G.C. (2011):** The Kenyan cadastral system and modern land administration, **Paper published in *ZfV (Zeitschrift fur Geodasie, Geoinformation und Land Management) Journal (Germany)*, Vol,136, No.3, March 2011, pp. 177 – 186 [ISSN 1618 – 8950].**
13. **Mulaku, G.C. and Nyadimo, E. (2011)** GIS in education planning: The Kenyan School Mapping Project, **Paper published in the *Survey Review Journal (UK)*, Vol. 43, No. 323, pp.567 – 578 (October 2011), [ISSN 0039 – 6265].**

14. **Mulaku, G.C. and Kamau, J. (2009)** Computer assisted analysis of the impact of location on real property value: A case study of Nairobi, Kenya, **Paper published in The Appraisal Journal (USA)**, Vol. LXXVIII, No. 3, Summer 2010, pp. 270 – 282 [ISSN 0003 – 7087].
15. **Mulaku, G.C., Wakoli, P.C. and Kiema, J.B. (2008):** Realignment of a guyed tower, **Paper published in the Survey Review Journal (UK)**, Vol. 39, No. 308, April 2008, pp. 135 – 141 [ISSN 0039 – 6265].
16. **Mulaku, G.C. , Kiema, J.B. and Siriba D.N. (2007):** Assessment of Kenya's readiness for Geospatial Data Infrastructure take off, **Paper published in the Survey Review Journal (UK)**, Vol. 39, No. 306, October 2007, pp. 328 – 337 [ISSN 0039 – 6265].
17. **Mulaku, G.C. and Siriba, D.N. (2005):** Identification of alternative solid waste disposal sites in Nairobi, Kenya: The GIS approach, **Paper published in the Journal of Civil Engineering Research and Practice (Kenya)**, Vol.2, No. 2, October 2005, pp. 39 – 47 [ISSN 1729 – 5769].
18. **Mulaku G.C., Mwea S.K. and Musembi S.N.(2004):** GIS for Highway Engineering in Developing Countries, **Paper published in the Journal of Civil Engineering Research and Practice (Kenya);** Vol I(1) , pp. 75-88, [ISSN 1729-5769]
19. **Mulaku, G.C. (2004):** Accurate mapping: The first step to better spatial information Management by African utilities, Paper Published in the African Journal of Science and Technology (UNESCO), Vol.5, no. 2, June 2004 [ISSN 1607 – 9949].
20. **Mulaku, G.C. and Wakoli, P.C. (2002):** After Disaster: The role of surveying in the Assessment of building structural integrity, **Paper Published in the Journal of Civil Engineering, JKUAT (Kenya)**, vol. 7, pp. 125 - 136 [ISSN 1562 – 6121].

21. **Mulaku, G.C. (2002):** The concept of a National Spatial Data Infrastructure: An African Perspective, **Paper Published** in *Geospatial Today (India)*, Vol.1(1), May/June 2002, pp. 13 – 19 [ISSN 0972 – 6810].
22. **Mulaku, G.C. and Kariuki, L.W. (2002):** Mapping air pollution in Nairobi, Kenya, **Paper Published** in the *African Journal of Environmental Assessment and Management (Germany)*, Vol. 4(1), pp. 29 – 37 [ISSN 1436 – 7890].
23. **Mulaku, G.C.(2000):** In search of an appropriate land tenure model for pastoral communities, **Paper published** in *The African Pastoral Forum (Kenya)*, September 2000, 27pp. [ISSN 1021 – 8688].
24. **Mulaku G.C.(2000):** Education and Training of Survey Professionals in a Technologically Changing World: The case of Kenya. **Paper Published** in the book, *Land Survey and large Scale Mapping in Sub-Saharan Africa*, by UN - Habitat, pp.100-107 [ISBN 92-1-131 466-6].
25. **Mulaku, G.C.(1998):** Setting up a LIS: A Systematic approach, **Paper published in the South African Journal of Surveying and Geo-information (South Africa)**, vol.1, No. 5 & 6, August & December 2000, pp 260-264 [ISSN 1561-4026].
26. **Mulaku, G.C. (1997):** Land Information Management in Kenya: An integrated approach, **Paper Published** in the *ITC Journal (The Netherlands)* 1997-3/4, CD annex [ISSN 0303-2434]
27. **Mulaku. G.C. and McLaughlin, J.D. (1996):** Concepts for Improving Property Mapping in Kenya, **Paper Published** in *The South African Journal of Surveying and Mapping (South Africa)*, Vol. 23, No. 10, April, 1996, pp 211-216 [ISSN 1023-5302].
-

H: CONFERENCE AND SEMINAR PAPERS

- 1. Mwange C.M., Mulaku G.C. and Siriba, D.N. (2016) : Technology trends for Spatial Data Infrastructure in Africa**, Paper presented at the GSDI 15 World Conference, Taipei, Taiwan, 29th November – 2nd December 2016.
- 2. Gwena M.O. and Mulaku, G.C. (2015): Use of Geo-information Technology in Assessing the Potential of Rainwater harvesting in Siaya County, Kenya**, Paper presented at the Masinde Muliro University of Science & Technology GIS International Conference, Kakamega, Kenya, 13th -14th August, 2015.
- 3. Mulaku, G.C. (2015): Spatial Data Infrastructure: The African Challenge**, Keynote paper presented at the RCMRD Regional Forum on Spatial Data Infrastructure, Kigali, Rwanda, 27th – 28th July 2015.
- 4. Mulaku, G.C. (2014): Crowd Sourcing in GIS; paper presented at a GIS Day Seminar**, Department of Geospatial and Space Technology, 19th November, 2014.
- 5. Mulaku, G.C. (2013): The Kenya National Data Infrastructure Draft Policy; paper presented at the Workshop to Re-launch KNSDI**, Nairobi, Kenya, 19th December 2013.
- 6. Mulaku, G.C. (2013): Spatial Data Infrastructure: The Concept; Paper presented at a GIS Day Seminar**, Department of Geospatial and Space Technology, 13th November, 2013.
- 7. Mulaku, G.C. (2012): Geoinformation and Security; Paper presented at a GIS Day Seminar**, Department of Geospatial and Space Technology, 14th November, 2012.
- 8. Mulaku, G.C. (2011): Cadastral Mapping in Mozambique; Paper presented at a departmental seminar**, Department of Geospatial and Space Technology, University of Nairobi, 25th November 2011.
- 9. Mulaku, G.C. (2010): *What is Community GIS?* Paper presented at the GIS Day Seminar**, University of Nairobi, 17th November 2010.

10. Mulaku, G.C. (2006): *The current status of NGDI standardization in Kenya*; Paper presented at the Kenya National Spatial Data Infrastructure Standards Seminar I, AICAD, Nairobi, Kenya, 29th November, 2006.

11. Mulaku, G.C. (2005): *The argument for GIS certification*; Paper presented at 7th AfricaGIS Conference and Exhibition, Tswane (Pretoria), South Africa, October 30 – November 4, 2005.

12. Mulaku, G.C. (2004): *The argument for GIS certification*; Paper presented at the First Kenya GIS Users (KUG) Conference, Kenyatta University, Nairobi, Kenya, November 17-18, 2004.

13. Bii, I.K., Ucauwun, E.K. and Mulaku G.C. (2004): *Spatio temporal analysis of land use/land cover change of Karen-Langata District*, Nairobi; Paper Presented at the 5th African Association of Remote Sensing of the Environment (AARSE) Conference, Nairobi, Kenya, October 18 – 21, 2004.

14. Kiema, J.B., Karanja, F.N. and Mulaku G.C. (2004): *From Surveying to Geospatial Engineering: Proposal for new degree programmes at the University of Nairobi*; Paper presented at the 5th African Association of Remote Sensing of the Environment(AARSE) Conference, Nairobi, Kenya, October 18-21, 2004.

15. Mulaku, G.C. and Siriba D.N.(2004): *Building Geospatial Data for Multiple Purpose Applications: The Role of Standards*, Paper Presented for presentation at the African Association of Remote Sensing of the Environment(AARSE) Conference, Nairobi, Kenya, October 18-21, 2004

16. Mulaku, G.C. (2004): *The Role of a Professional GIS Association in Kenya*; Keynote Paper Presented at the Kenya ESRI supported GIS User Group Symposium, University of Nairobi, Kenya, August 21, 2004.

17. Mulaku, G.C.(2003): *Capacity Building In Kenya To Meet The Challenges of The 21st Century In Surveying And Mapping*, Paper presented at the *Symposium in Commemoration of the Survey of Kenya Centenary*, Nairobi, Kenya, 8th October, 2003

- 18. Mulaku, G.C. (2003): *Characteristics of Geospatial data*, Paper Presented** at the JICA Workshop on the application of Geospatial information and GIS, 19th March 2003, JKUAT, Juja, Kenya
- 19. Mulaku , G.C. (2002): *GIS data exchange and standards* : Paper presented** at the *Kenya Institute of Surveying and Mapping international course on Geographic Information Systems*, 13th August 2002, Nairobi , Kenya.
- 20. Mulaku, G.C. (2002): *Potential application of space technology to landslide study and management in Kenya*, Paper Presented** at the *United Nations Workshop on the use of space technology for disaster management for Africa*, Addis Ababa, Ethiopia, 1 – 5 July, 2002.
- 21. Mulaku , G . C. (2001): *Land Information Systems: An overview*, Paper presented** at the *Kenya Institute of Surveying and Mapping seminar on Land information systems* , 26th July 2001 , Nairobi, Kenya .
- 22. Mulaku,G.C. (1998): *GIS: The basics*, In *Proceedings of the Kenya Institute of Surveying and Mapping International Seminar on New Survey Technology*, Nairobi, Kenya, January 26 – 30, 1998.**
- 23. Mulaku,G.C.(1996): *Land Information Management in East Africa: An integrated approach*** In *Proceedings of the CASLE/ISK regional seminar, NAIROBI, Kenya, July 23 – 26, 1996.*
- 24. Mulaku,G.C.(1996): *Cadastral Survey integration for GIS*, In *Proceedings of the Conference on the application of remotely sensed data and Geographical Information Systems in Environmental and Natural Resources Assessment in Africa*, Harare, Zimbabwe, March 15- 22, 1996.**
- 25. Aduol,F.W.O., Syagga, P.M., Mbatha,C.M, and Mulaku, G.C.(1995): *Education for a Modern Integrated Survey Professional: A model curriculum with special Reference to developing countries*, In *Paper Presented at the CASTLE/FIG Conference*, Harare, Zimbabwe, August 1995.**

26. Aduol,F.W.O.,Kingoriah,G.K.,Mbatha,C.M. and Mulaku,G.C.(1994): *The Surveying Profession into 21st Century*, Paper Published in *The Kenya Surveyor*, Vol. 3, No. 4, Nov/Dec 1994, pp.33-42.

27. Mulaku,G. C.(1993): *Surveying Education in the year 2000 and beyond*, Paper Published in *The Kenya Surveyor*, Vol.3, No. 2, March 1993.

28.Mulaku,G.C.(1992): *GIS Education in Kenya*, In *Proceedings of Kenya Agricultural Research Institute, National GIS Conference, Nairobi March 1992*.

29. Mulaku,G.C. and Lodwick,G.D.(1987): *Map data digitizing and Automatic Hydrological Network Reconstruction*, Paper Presented at the *International Geographic Information Systems(IGIS) Symposium*, Crystal city, USA, Nov. 1987.

I: INVITED LECTURES

1.Mulaku, G.C. (2017): *Role of Universities in Geospatial Technology Development*, Invited Keynote address to the 1st International Conference of the Regional Center for the Mapping of Resources for Development (RCMRD), Nairobi, Kenya, 27th -29th September, 2017.

1.Mulaku, G.C. (2016): *Geospatial data and Kenyan Counties*, Invited lecture to Kenyan county managers, Centre for Urban Research and Innovations, University of Nairobi, 5th December 2016.

2.Mulaku, G.C. and Kiema, J.B. (2009): *Space technology: Benefits to mankind.*, Invited lecture to the National Defence College, Karen, Nairobi, Kenya, 2nd February 2009.

3. Mulaku, G.C. (2008): *Geoinformation and Security*; Invited lecture to National Security Intelligence Officers, Mombasa, Kenya, 22nd February 2008.

J: OTHER CONTRIBUTIONS TO LITERATURE

- 1. Mulaku, G.C. (1987): *Map Data Digitizing, Editing and Automatic Hydrological Network Reconstruction*, M.Sc Thesis, Department of Surveying Engineering, The University of Calgary, 142 pp.**
- 2. Mulaku, G.C. (1992): *Establishing of GIS Capability at the Ministry of Reclamation and Development of Arid and Semi-Arid areas and Wastelands, Institutional issues, Project Report to the World Bank ASAL Team*, Nairobi Kenya.**
- 3. Mulaku, G.C. (1995): *Concepts for PID Improvement*, Ph.D Thesis, University of New Brunswick, 160 pp.**
- 5. Mulaku, G.C. (2001): *Surveying is more than issuing land titles*, Press article for public awareness, to coincide with the International Conference on Spatial Information for Sustainable Development, *Daily Nation*, 2nd October, 2001.**
- 6. Mulaku, G.C. (2007): *Era of “lost files” at land registries to end*; Press article for public awareness, to coincide with the National Symposium on the National Land Policy Formulation Process, *Daily Nation*, 26th April, 2007.**

K: CONFERENCES, WORKSHOPS AND SEMINARS ATTENDED

- 2018:** EALAN 2018 AGM and Conference, Makerere University, Kampala, Uganda, 23rd – 25th July, 2018.
- 2017:** EALAN 2017 AGM and Conference, University of Nairobi, Kenya, 24th – 27th July, 2017.
- 2016:** EALAN workshop for developing its strategic plan, business plan and research strategy, Ines-Ruhengeri University, Musanze, Rwanda, 23rd-27th May, 2016.

2015: Regional Spatial Data Infrastructure Forum, Kigali, Rwanda, 27th -28th July, 2015

2015: World Bank Workshop on air quality management planning in large metropolitan areas, Johannesburg, South Africa, 25th - 27th March, 2015.

2015: ISK Forum for review of the Survey Act, Nairobi, Kenya, 18th March, 2015.

2015: EALAN workshop on strengthening the regional EALAN network to build capacity in land administration and land governance in the Great Lakes region, Regional Centre for the mapping of resources for development (RCMRD), Nairobi, Kenya, 24th – 28th January 2015.

2014: International GIS Day Seminar, University of Nairobi, 19th November 2014.

2014: Workshop and General Meeting of the Eastern Africa Land Administration Network (**EALAN**); Nairobi, Kenya, 11th -12th July, 2014.

2013: Workshop to re-launch the Kenya National Spatial Data Infrastructure Initiative; Nairobi, Kenya, 19th December 2013.

2013: International GIS Day Seminar, University of Nairobi, 13th November 2013.

2012: International GIS Day Seminar, University of Nairobi, 14th November 2012.

2012: IGAD Regional Earth Observation policy Assessment Workshop, Kampala, Uganda, 29th – 30th march, 2012.

2011: International Federation of Surveyors (FIG) Africa Task Force workshop on Building Resilience in the Surveying Profession, University of Cape Town, South Africa, 1st-2nd December 2011.

2011: Departmental seminar, Department of Geospatial and Space Technology, University of Nairobi, 25th November 2011.

2011: Institution of Surveyors of Kenya workshop on the new draft Land Bill 2011 and Land Registration Bill 2011, 27th October, 2011, Nairobi, Kenya.

2010: International GIS Day seminar, University of Nairobi, Kenya, 17th Nov. 2010.

2009: Kenya National Spatial Data Infrastructure Stakeholders Workshop for adoption of the Draft KNSDI Policy, Nairobi, Kenya, 19th August, 2009.

2009: ESRI International GIS user conference, San Diego, California, USA, 11th –17th July, 2009.

2009: USAID workshop on implementation of the draft national land policy for Kenya, Nairobi, Kenya, 6th March 2009.

2009: African Union Meeting on Technology Planning and Technological Governance in Africa, 24th – 27th February 2009, Nairobi, Kenya.

2008: 3rd ESRI Eastern Africa User Conference, 23-24 October 2008, Nairobi, Kenya.

2008: KNSDI Seminar IV, Nairobi, Kenya, 30th September, 2008.

2008: Workshop on KNSDI Policy, Nairobi, Kenya, 28th August 2008.

2008: Kenya National Spatial Data Infrastructure Standards Seminar III, Nairobi, Kenya, 21st February, 2008

2007: 1st Conservation GIS Conference, UNEP Headquarters, Nairobi, Kenya, 18th - 20th. July, 2007.

2007: Kenya National Spatial Data Infrastructure Standards Seminar II, AICAD, Nairobi, Kenya, 4th July, 2007.

2007: Kenya National Spatial Data Infrastructure Standards Technical Committee Workshop, Nairobi, Kenya, 21st June, 2007.

2007: National Symposium of the Land Policy Formulation Process, Nairobi, Kenya, 26-27th April, 2007.

2006: Kenya National Spatial Data Infrastructure Standards Seminar I, AICAD, Nairobi, Kenya, 29th November, 2006.

2006: 1st Eastern Africa ESRI User Conference, Nairobi, Kenya, 5 – 6 October 2006.

2005: Fourth Kenya National Spatial Data Infrastructure Workshop, Nairobi, Kenya, 30th November, 2005.

2005: The 7th AfricaGIS Conference and Exhibition, Tswane (Pretoria), South Africa, October 30 – November 4, 2005.

2005: Stakeholder’s Workshop on Space Science and Technology in Kenya, Nairobi, Kenya, October 18th, 2005.

2005: Multipurpose cadastre seminar, Nairobi, Kenya, 4th October 2005

2004: First Kenya GIS User’s (KUG) Conference, Nairobi, Kenya, November 17 – 18, 2004

2004: 5th African Association of Remote Sensing of the Environment (AARSE) Conference, Nairobi, Kenya, 18th – 21st October, 2004.

2004: Kenya ESRI supported GIS User Group symposium on the use of GIS in Disaster Management, University of Nairobi, August 21, 2004.

2003: JICA Workshop on the application of Geospatial information and GIS.

2002: United Nations Workshop on the use of space technology for disaster management for Africa, Addis Ababa, Ethiopia, 1 – 5 July, 2002.

2002: Second Kenya National Spatial Data Infrastructure Workshop, Nairobi, Kenya, 26th April 2002.

2002: University of Nairobi / University of Rome Image analysis and remote sensing workshop, Nairobi, Kenya, January 21 – 31, 2002.

2001: First Kenya National Spatial Data Infrastructure Workshop, Nairobi, Kenya, 12th November, 2001.

2001: The 5th Africa GIS Conference and Exhibition, Nairobi, Kenya, 2 – 5 November, 2001

2001: FIG / ISK / HABITAT International Conference on spatial information for sustainable development, Nairobi, Kenya, 2 – 5 October, 2001.

2001: Kenya Institute of Surveying and Mapping seminar on Land Information Systems, Nairobi, Kenya, 26th July, 2001.

2000: Meeting of Experts on the future of Geoinformation in Africa, Addis Ababa, Ethiopia, 6 – 10 November, 2001.

1999: Regional workshop on land survey and large – scale mapping in support of settlements planning, land development and management, Nairobi, Kenya, 4 – 8 October, 1999.

1998: Ad – hoc Expert Group meeting on integrated Geographic Information Systems with special attention to Cadaster and Land Information Systems for African decision makers, Addis Ababa, Ethiopia, 23 – 26 November, 1998.

1998: Kenya Institute of Surveying and Mapping international seminar on new survey technology, Nairobi, Kenya, 26 – 30 January, 1998.

1997: The international conference on Geoinformation for sustainable land management, Enschede, the Netherlands, 17 – 21 August, 1997.

1996: CASLE / ISK East African regional seminar, Nairobi, Kenya, 23 – 26 July, 1996.

1996: Conference on the application of remotely sensed data and Geographic Information Systems in environmental and natural resources assessment in Africa, Harare, Zimbabwe, 15 –22 March, 1996.

1992: The Kenya Agricultural Research Institute National GIS Conference, Nairobi, Kenya, 5 – 6 March, 1992.

1987: The International Geographic Information Systems Symposium, Crystal City, Virginia, USA, 15 – 18 November, 1987.

L: CONFERENCE ORGANIZATION AND SERVICE

1. Chairman, Programme Committee, for the FIG/ISK/HABITAT International Conference on Spatial Information for Sustainable Development, Nairobi, Kenya, 2 – 5 October, 2001.
2. Member, Programme Committee for the 5th AFRICA GIS Conference, Nairobi, Kenya, 5-9 November 2001.
3. Chairman, Programme committee for the CASLE/HABITAT/ISK Regional Seminar/Workshop on security of land tenure, Nairobi, Kenya, 12-13 June 2003.

4. Paper reviewer and Session Chair, 5th AARSE Conference, Nairobi, Kenya, 18th – 21st October, 2004.
5. Session Chair, FIG Commission 7 Expert Group Meeting on Secure Land Tenure, Nairobi, Kenya, 10th – 12th November, 2004.
6. Session Chair, Kenya GIS users conference, Nairobi, Kenya, November 17 – 18, 2004.
7. Session Chair, 1st Eastern Africa ESRI User Conference, Nairobi, Kenya, October 5th – 6th, 2006.
8. Session Chair, 1st Conservation GIS Conference, Nairobi, Kenya, 18th – 20th July 2007.
9. Session Chair, KNSDI Standards Seminar III, Nairobi, Kenya, 21st February 2008.
10. Session chair, KNSDI Policy Workshop, Nairobi, Kenya, 28th August 2008
11. Session Chair, KNSDI Seminar IV, Nairobi, Kenya, 30th September 2008.
12. Session Chair, 3rd Eastern Africa ESRI User Conference, Nairobi, Kenya, 23 – 24 October, 2008
13. Session Chair, KNSDI Stakeholders Workshop, Nairobi, Kenya, 19th August 2009.
14. Session Chair, Regional Earth Observation Policy Assessment Workshop, Kampala, Uganda, 29th – 30th March, 2012.
15. LOC Chair, EALAN AGM/Conference 2017, **(to be)** Nairobi, Kenya, 24th – 26th July 2017.

M: ACADEMIC EDITORIAL SERVICE

1. Member of the International Advisory Board, *Geospatial Today*, 2002 – 2003.
2. Overseas Editorial Board Member and paper reviewer, *The Survey Review (UK)*, 2003 – present.
3. Paper reviewer for “*Research Week*”, University of Mauritius, 2010.

N: BOOK REVIEWS

1. 1993: Reviewed a book manuscript, *Surveying for Civi Engineering*, for The Jomo Kenyatta Foundation.

O: AWARDS

1. 1981 – 1982:Netherlands Government scholarship for Post Graduate Diploma studies
2. 1985 – 1987:Canadian Government (CIDA) scholarship for M.Sc studies
3. 1992 – 1995:Canadian Government (CIDA) scholarship for Ph.D studies
4. 1997 – UN scholarship for short course in Sweden.
5. 2000 – KNEC certificate of commendation for long and meritorious service as a Technical Examiner.
6. 2001 – FIG Certificate of Honour for service to the Surveying profession.

7. 2002 – FIG Foundation award (US \$ 1000) for research on Spatial Data Infrastructure in Kenya.
 8. 2004 – FIG Foundation award(US\$ 500) for research on Spatial Data Infrastructure in Kenya.
 9. 2012 - Dean’s Committee grant of 250,000/- for research on a Geospatial Database of Kenyan universities.
 10. 2018 – EALAN memorial plaque for service to the Eastern Africa Land Administration Network (EALAN) as Chairman in the year 2017 – 2018.
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P: PROFESSIONAL QUALIFICATIONS, MEMBERSHIP AND SERVICE

1. Licensed Surveyor (Kenya)
2. Full Member of the Institution of Surveyors of Kenya(I.S.K.).
3. Member of Kenya ESRI-supported GIS User Group(KUG).
4. Former Examiner in various surveying related subjects to the Kenya National Examinations Council and Survey of Kenya.
5. Former Kenya Institute of Education Panel member for the Development and review of surveying curricula for Kenyan national polytechnics and lower TIVET institutions.
6. Former ISK representative to the National Inter-Agency Committee on Disaster Management.
7. Resource person and participant in the development of the Kenya National Land Policy and the subsequent Parliamentary Sessional Paper no. 3 of 2009.
8. Chairman, Education Working Group on the Kenya National Spatial Data Infrastructure initiative.
9. Chairman, Stakeholder Committee of Experts for development of the Kenya National Spatial Data Infrastructure policy

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Q: EXTERNAL EXAMINER APPOINTMENTS

1. 2007 - 2012: **Moi University**, School of Environmental Studies, Environmental Information Systems Department.
-

R: GOVERNING BOARD APPOINTMENTS

1. Council member, Meru University College of Science & Technology, 2009 to February 2013.
 2. Council member, Meru University of Science & Technology, March 2013 to March 2017. I chaired the Academic Committee of Council.
 3. Board of Management member, St. Teresa's Girls Secondary School, Nairobi, July 2011 to date.
 4. Board of Management Chairman, St. Teresa's Girls Secondary School, Nairobi, February 2016 to date.
-

S: COMMUNITY SERVICE

1. Former Trustee, Mukuru Trust
2. Support to Emakwara Primary School and Buhuyi Secondary School with student motivational awards.

3. Chairman, St. Veronica Small Christian Community, St. Peters Catholic Church, Ruai, Nairobi.

T: CONSULTANCIES COMPLETED

1. **1990-1991:** GIS Consultant to Overseas Development Institute (UK) in their project on Environmental Conservation in Machakos District; study funded by the World Bank and the Rockefeller Foundation.
2. **1992:** Consultant to the University of Nairobi on the surveying aspects of the planning of a squatter resettlement scheme at the University's Kibwezi field station.

3. **1992:** GIS Consultant to the World Bank (ASAL Team) on the establishing of GIS capability at the Ministry of Reclamation and Development of Arid and Semi-Arid areas and Wastelands.
5. **1994:** In Consultancy with Coda & Partners, conducted a one week's course for surveyors at the Ministry of Works, Lilongwe, **Malawi**, on the use of total stations to acquire data for the design and construction of the Bangula-Nsanje-Marka road project. Project funded by the African Development Bank.
6. **1997:** Consultant to the Regional Centre for services in Surveying, Mapping and Remote Sensing on the use of remote Sensing as a resource person in the ICS course in Remote Sensing techniques for the development of pollution monitoring networks in industrial urban areas.
7. **1998:** Consultant Surveyor to Nairobi Secondary School Teacher's Housing Society for their residential housing scheme in Athi River (157 plots).
8. **1999:** Topographical Survey of Kayaba Primary School, St. Elizabeth Primary School and King Badouin Children's Home in Mukuru for the Catholic Sisters of Mercy on a charitable basis.

9. **2000:** Consultant to **FAO, Rome, Italy** on land tenure models in the pastoral areas of the horn of Africa.
10. **2001:** Consultant to Chuna Housing Cooperative Society on evaluation of the cadastral survey of plots for their Kitengela Housing Scheme.
11. **2002:** Consultant to Chuna Housing Cooperative Society on evaluation of the cadastral survey of the plot for their Kisumu housing scheme.
12. **2003:** Consultant to Coda Corporation on digital mapping for the design of the Illasit-Rombo-Taveta road. **The first application of high resolution satellite imagery to road mapping in Kenya.**
13. **2004:** Consultant to IRCU in mapping for the design of the Centre for Advanced Studies in Environmental Law and Policy.
14. **2005:** Consultant to the Department for International Development (DFID – UK) on the Kenya National Land Policy Formulation Programme as the Resource Person on Land Information Management Systems.
15. **2005:** Country Facilitator for JICA’s multinational video conferencing course on remote sensing and GIS (*Kenya, Thailand, Sri Lanka*).
16. **2005:** GIS consultant to the Ministry of Local Government on road safety digital mapping in Kisumu, Kisii, Kakamega and Eldoret municipalities.
17. **2006:** Country Facilitator for JICA’s multinational video conferencing course on remote sensing and GIS (*Kenya, Sri Lanka, Bangladesh, Palestine*).
18. **2006:** Consultant to HTSPE (UK) on mapping for land titling in **Rwanda.**
19. **2007 – 2008:** Consultant to Ministry of Education and USAID on the countrywide development of a GIS database of learning institutions (**School Mapping Project**).

20. **2007:** Country Facilitator for JICA’s multinational video conferencing course on Remote Sensing and GIS (*Kenya, Jordan, Cambodia*).
21. **2008:** Country Facilitator for JICA’s video conferencing Advanced Course on Remote Sensing, GIS and Project Management (*Kenya*).
22. **2008:** Country facilitator for JICA’s multinational video conferencing course on Remote Sensing and GIS (*Kenya, Malaysia, Palestine*).
23. **2009 – 2010:** Consultant to HTSPE (UK) on improvement of the cadastre in **Mozambique**.
24. **2012:** Consultant to Matrix (K) and HTSPE (UK) on training of trainers in Surveying and GIS for the **Rwanda** Land Tenure Regularization Support Programme (LTRSP).
25. **2012 - 2013:** Consultant to Matrix (K) on digital topographic mapping for the planning of Narok Town.
26. **2013:** Consultant to Ministry of Lands, Housing and Urban Development on subdivision for re-settlement of IDPs and forest evictees.
27. **2014 - 2015:** Consultant to the World Bank on their Land Governance Assessment Framework (LGAF) programme in Kenya.

U: LANGUAGES

	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
English	excellent	excellent	excellent
Kiswahili	excellent	excellent	excellent
Luhya	excellent	excellent	excellent
Dholuo	fair	fair	fair
Portuguese	fair	poor	poor

V: REFEREES

1. Prof. Justin Irina
Chancellor, Murang'a University of Science & Technology
[justinirina@rocketmail.com] [Phone: 0722-510748]
2. Prof. George Rading
School of Engineering, University of Nairobi
P.O. Box 30197 - 00100 GPO
NAIROBI, KENYA [gorading@hotmail.com][Phone: 0733 - 727441]
3. Prof. Arthur Kwena
School of Medicine, Moi University
P.O. Box 4606-30100
ELDORET, KENYA [arthurkwena@gmail.com][Phone: 0711-927937]

W: CERTIFICATION

I, Galcano Canny Mulaku, the undersigned, certify that to the best of my knowledge and belief, these biodata correctly describe myself, my qualifications and my experience.

JCM

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SIGNATURE

19th Nov. 2021
DATE