

CURRICULUM VITAE

1.0 BIODATA

Name : Roy Orenge Samwel
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Sex : Male
Nationality : Kenyan

2.0 COMPETENCIES AND SKILLS SUMMARY

- ♦ Teaching at university level and Academic research
- ♦ Design and implementation of electrical installations including solar and small hydro's
- ♦ Energy systems design and Analysis using softwares such as PowerFactory, MATLAB, ETAP, PVSyst among others
- ♦ Computer applications (MS-Word, MS-Excel, Quickbooks, MS-PowerPoint, Latex), AUTOCAD and other design softwares

3.0 ACADEMIC BACKGROUND

3.1 ACADEMIC TRAINING

Period	Institution	Qualification
2015 – 2019	Pan African University Institute for Basic Sciences Technology and Innovation (PAUISTI)	PhD. Electrical Engineering (Sustainable Power Systems) ❖ Research area: <i>Solar Photovoltaic integration into the distribution grid.</i>
2011-2014	Pan African University Institute for Basic Sciences Technology and Innovation (PAUISTI)	Master of Science in Electrical Engineering (Power Systems) ❖ Research area: <i>Large Scale Wind Power integration: Case of Kenyan Power Network</i>
2006-2011	Jomo Kenyatta University of Agriculture and Technology(JKUAT)	Bachelor of Science in Electrical & Electronic Engineering. Second Class – Upper Division
2001-2004	Mbale High School	Mean Grade A Plain.

3.2 OTHER PROFESSIONAL TRAININGS

Period	Organizer/ Training body	Training Location	Qualification/Acquired Skills
May 2018	USAID and Kenya Power	Kenya Power institute of Energy studies and research (KPIESR)	➤ Strategies for development of Renewable energy projects - Solar PV, Wind and Hybrid systems
Aug, Sept 2018	International Center on Small Hydro Power (ICSHP)	ICSHP headquarters in Hangzhou, Zhejiang China	➤ Site Survey for small hydro power potential ➤ Design and implementation of hydroelectric power station. ➤ Operation and Maintenance of SHP

4.0 WORKING EXPERIENCE

4.1 UNIVERSITY ACADEMIC EXPERIENCE

Institution/ company/ Firm	Period	Position	Responsibilities/Duties
Jomo Kenyatta University of Agriculture and Technology(JKUAT)	2018 to date	Lecturer	<ul style="list-style-type: none"> ♦ Academic research ♦ Teaching undergraduate degree courses and masters courses in electrical power systems and energy ♦ Supervising undergraduate a students in their final year projects. ♦ Supervising Masters and PhD Thesis
Dedan Kimathi University of Technology	<u>2015 to 2018</u> <u>2013 to 2015</u> <u>2011 to 2013</u>	<u>Lecturer</u> <u>Ass. Lecturer</u> <u>Teaching Ass</u>	<ul style="list-style-type: none"> ❖ Teaching undergraduate degree course In courses related to energy and power systems ♦ Supervising undergraduate students in their final year projects.
Multimedia University of Kenya	January 2015 to Date	Part time Lecturer	<ul style="list-style-type: none"> ❖ Teaching undergraduate degree course <i>Electrical Machines and Power Systems</i>

4.2 ADMINISTRATIVE AND OTHER RESPONSIBILITIES

Period	Institution/company/ Firm	Position	Responsibilities/Duties
July – September 2019 (2 Months)	Jomo Kenyatta University of Agriculture and Technology(JKUAT)	Acting Chairman of the Department	<ul style="list-style-type: none"> ❖ Co-ordinating all functions of the department ❖ Departmental chief examination reporter at the university senate. ❖ Appraising staff both academic, technical and support staff in the department

2016 (6 months), 2018 (2 months)	Dedan Kimathi University of Technology (DeKUT)	Acting Chairman of the Department	<ul style="list-style-type: none"> ❖ Co-ordinating all functions of the department ❖ Departmental chief examination reporter at the university senate. ❖ Appraising staff both academic, technical and support staff in the department
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4.3 OTHER PART-TIME ENGAGEMENTS

Period	Institution/company/ Firm	Position	Responsibilities/Duties
April 8-12 2019	Centre for Renewable Energy– Machakos University	Main Trainer – Solar PV Grid- Tie Training	<ul style="list-style-type: none"> ❖ Conducting theoretical and practical based training on solar PV and Hybrid systems ❖ Sizing of components for standalone and grid tied PV systems
2018,2019	Kenya National Examination Council (KNEC)	Expert – Recruitment of Subject head Electrical and Electronics	<ul style="list-style-type: none"> ❖ Conducting written examination for the candidates ❖ Main expert panellist in the oral interview
2019-	Kenya Bureau of Standard (KEBs)	Technical committee – Electrical Lamps and wiring accessories	<ul style="list-style-type: none"> ❖ Establishment of standards for electrical lamps and wiring accessories

5.0 MEMBERSHIP TO PROFESSIONAL BODIES AND LICENCES

S/No	Body/Licenser	Membership/Licence Details
1.	Engineering Board of Kenya (EBK)	Graduate Engineer Membership
2.	Energy Regulation Commission (ERC)	Solar Photovoltaic T3 Licence (Highest) Licence to design and install solar systems including grid tied and hybrid systems (with wind or fuel gen sets).
3.	Energy Regulation Commission (ERC)	Solar Water Heating Licence

6.0 RECENT PUBLICATIONS AND CONFERENCES

S/ N	Authors	Title	Publisher/C onference	Publication period / Presentation place.
1	Orege Roy., Muriithi C. M. and Nyakoe G. N.	Optimal sizing and Placement of Solar Photovoltaic systems in a power system using particle swarm optimization	IEEE - PES Conference in 2018	To be presented at Century Hotel, Cape Town South Africa, between 26-29 June 2018
2	Roy Orege, C. Maina Muriithi, George N. Nyakoe	Effect of AVR and PSS on Power System Transient Stability with Different Wind Generation Technologies	Journal of Energy Technologies and Policy	2015
3	Orege R. S., Muriithi C. M. and Nyakoe G. N	Transient Stability Analysis of the Kenyan Power System With Different Wind Generation Technologies	Journal of Sustainable Research in Engineering (JSRE)	2014
4	Orege S. R., Muriithi C. M. and Nyakoe G. N	Transient Stability Analysis of a System with Wind Power Generation in DigSILENT PowerFactory	KSEEE- JSAEM International Conference	Technical University of Mombasa 2014
5	Orege R. S., Muriithi C. M. and Nyakoe G. N	Comparative analysis of SCIG and DFIG Based Wind Generation on Transient Stability of the Kenyan Power System	Sustainable Research and Innovation Conference	AICAD (within the JKUAT Main Campus), 7 th -9 th May 2014
6	Orege R. S., Muriithi C. M. and Kivuva A	Impacts of Integrating Wind Power Generation on the Transient Stability of the Kenyan Power System	Sustainable Research and Innovation Conference	AICAD (within the JKUAT Main Campus), 24 th -26 th April 2013
7	Orege S. R	Wind Farm Modelling and Aggregation for Power System Stability Studies	8 th Annual International Conference	Moi University Eldoret 2012
8	Orege S. R., Kaberere K. K. and Muriithi C. M	Impact of Different Wind Generation Technologies on Power System Transient Stability	KSEEE- JSAEM International Conference	AICAD (within the JKUAT Main Campus), 2012

7.0 **REFEREES**

	Name	Position	Company/Firm/ Institution	Contacts
1	Prof. Christopher Maina Muriithi	Dean, Faculty of Engineering	Murang'a University of Technology	+254721791736 cmaina77@yahoo.com
2	Dr. Ciira Maina	Chairman, Department of Electrical and Electronic Engineering	Dedan Kimathi University of Technology	+254716196331 cwamaina.dekut@gmail.com
3	Fred Ishugah	Energy Expert	United Nations Industrial Development Organization (UNIDO) - East African Centre for Renewable Energy and Energy Efficiency (EACREEE)	+256705710040, +254724368489 f.ishugah@unido.org f.ishugah@eacreee.org
4	Eng. Francis Maina	Director	Power Technology Solutions Ltd	+254714 788 069 francis.ennptsl@gmail.com