

# CURRICULUM VITAE

## MURITHI JAMES

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### Career Objective

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To leverage my acquired academic knowledge and work experience to effectively work in a growth-oriented organization. A dedicated individual aiming to achieve goals and take on more responsibility as quickly as possible.

### Education

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Year	Course	Grade	Institution
2024	Master of Science in Electrical and Electronic Engineering.	Graduated	University of Nairobi
2018	Bachelor of Science in Electrical and Electronics Engineering.	First Class Honor	University of Nairobi.
2011	KCSE	A (Plain)	Ikuu Boys High School.
2007	KCPE	A (Minus)	Gachaine Primary School.

### Research & Projects

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**2022 – 2024** Particle Swarm Optimization of Self-Consumption for Solar PV Integrated Buildings.

**2018** Development of a TV-Remote Control Signal Jamming Device.

### Publications

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James Murithi; George Kamucha; Lawrence Letting, “Particle Swarm Optimization of Self-Consumption for Solar PV Integrated Buildings”, 2024 9th International Youth Conference on Energy (IYCE). Year: 2024 | Conference Paper | Publisher: IEEE

### Awards

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**2019** Postgraduate Scholarship award by the University of Nairobi for MSc. Studies.

### Achievements

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**2022-2023** Carried out an energy audit for the Chiromo Campus, University of Nairobi.

### Key Skills & Abilities

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- Programming: MATLAB, Python, Machine Learning, Latex, Java.
- Power Systems design and Analysis.
- Microsoft Packages.
- AutoCAD.
- Excellent customer-facing and communication skills, fluent in English and Kiswahili languages.
- Ability to work in a team with high team management skills.
- Strong decision-making skills and the ability to prioritize and plan effectively.

## **Work Experience**

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### **2021 – Present      Graduate Assistant at the University of Nairobi**

- Member of Departmental Examination Committee in charge of Fourth-Year Results.
- Conducting research and further training in the field of Electrical and Electronics Engineering.
- Supervising laboratory experiments and marking laboratory reports for FEE 481 and FEE 482.
- Conducting lectures for third-year Analogue Electronics in the department of Electrical and Information Engineering and for service courses in the departments of Mechanical and Manufacturing Engineering (FEE3 291: Electrical Circuits Theory) and Department of Real Estate, Construction Management and Quantity Surveying (BCM 3208: Building Technology III).
- Attending and participating in departmental meetings.
- Assisting senior staff in conducting tutorials and invigilation of continuous assessment tests and end of semester exams.
- Carrying out any other duties as may be assigned to me by the head of the department.

### **2020 – 2021      Public Service Commission TVET Trainer at Meru National Polytechnic**

- Training and guiding trainees on various theoretical and practical skills on Power Systems, Machines, Electric Circuit Analysis, Electrical Principles, Digital Electronics, Electrical Power Generation, Transmission and Distribution, and Analogue Electronics as per the syllabus.
- Preparing training materials such as course outlines, notes and practical for the various subjects.
- To set, administer and supervise assignments, CATs and end of term exams.

### **2019 – 2020      Internship at ICT Authority**

- Training, mentorship and creating awareness on Ajira Digital Program
- Monitoring and Evaluation of Ajira Digital Program Project.
- Providing Infrastructure to facilitate Ajira Digital Program such as Digital Learning Program.

### **2019      Internship at Kenya Revenue Authority (KRA)**

- Synchronization of generators for Load Sharing.
- Maintenance of Electric Motors and Generators.
- Repairing, troubleshooting and installation of new electric lightings and Sockets.
- Maintenance of elevators and lifts.
- Maintenance of substation.

## **2017 Industrial Attachment at Vanguard Engineering Ltd**

- Procured building and plumbing materials for the International Livestock Research Institute (ILRI) construction site.
- Took part in Mechanical services including plumbing and drainage at the International Livestock Research Institute (ILRI) construction site.
- Prepared detailed quotations of building and plumbing works for residential and commercial properties.
- Successfully managed tenders for the company and prepared numerous bill of quantities.

## **2016 – 2016 Industrial attachment at Electro serve Ltd**

- Installed LAN and power cables at KRA offices, Sameer Business Park branch.
- Maintained bollards and the automatic gate at The National Treasury.
- Successfully secured tenders for the company.
- Installed security systems such as access control systems and CCTV cameras at The National Treasury.

## **Community Service & Extracurricular**

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- Working in collaboration with Unbound Meru Project by sponsoring needy students in the community and paying part of their school fees.
- Enjoy most outdoor sports and activities, theater, reading for general knowledge, crosswords and puzzles.
- Watching documentaries especially engineering and technology related.
- Taking part in charity visits.
- Voted best class monitor in 2010 and 2011.
- Participated in an orphaned children's home visit in SOS Mombasa.

## **Referees**

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1. Prof. George Kamucha,  
University of Nairobi,  
Department of Electrical and Information Engineering.  
P.O Box 30197-00100, Nairobi, Kenya.  
Email: [gkamucha@uonbi.ac.ke](mailto:gkamucha@uonbi.ac.ke)
2. Dr. Abraham Nyete Mutunga,  
Chairman,  
Department of Electrical and Information engineering,  
University of Nairobi,  
Email: [anyete@uonbi.ac.ke](mailto:anyete@uonbi.ac.ke)
3. Mr. Mbae Joseph,  
Principal Ikuu Boys High School,  
P.O. Box 40, Chuka.