

George Kilama

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Department of Process and Chemical Engineering
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Nationality Ugandan

Personal Statement

I am a self-driven practical engineer requiring minimum supervision with over 12 years of practical work on factory floor, University lecturing Power plant Installation and Maintenance power line construction; registered with UIPE, holds Electricity Regulatory Authority (ERA) class B & X installation Permits.

Key strengths include:

- Installation and Maintenance of Electrical power systems
- Design, construction and maintenance of electrical power distribution network
- Innovation and improvement of engineering equipment, processes and materials
- Research & Development
- Engineering Project Management
- Technical Documentation
- Change Management

Education:

2022 to date: PhD student of Sustainable Energy:	Busitema University
2014-2019: MSc in Technology Innovation and Industrial Development:	Makerere University, Uganda
2006 – 2010: Bachelor of Science in Electrical Engineering:	Makerere University, Uganda
2001 – 2003: Ordinary Diploma in Electrical Engineering:	Uganda Technical College Kichwamba

Other qualifications

- Certificate in Solar Energy Technology and Energy Efficiency→ New and Renewable Energy Authority-Arab Republic of Egypt
- Certificate in Management of Engineering project→ Uganda Institute of Professional Engineers
- Valid Installation Permit Class B since 2015, and Class X 2022→Electricity Regulatory Authority (ERA)
- Registered with Uganda Institution of professional Engineer

- Started the process of registration with ERB
 - Certificate in Taking Your Classroom Online → DAAD Academy Nairobi October 2021
- Problem Solving and Teamwork Enhancement → DAAD Academy Nairobi November 2021

Technical Skills and Expertise:

- Installation and maintenance of Electrical power systems
- Domestic and industrial Electrical Installation
- Microsoft Office (Ms Word, Excel, Power Point, Visio) and Internet Applications
- Training of engineering students in Electrical works

Projects

Designed and developed a working prototype of an improved hydropower tiller for small scale paddy rice cultivation Uganda

I won a grant worth 10,000,000/- by TIIBC to develop the prototype

Applied for grant from Ministry of Science and Technology for the development of a pilot floating solar plant at Abulleke village near Busitema University

Applied with colleagues for Busitema University Research and Innovation Fund (BURIF) to develop the floating solar PV plant for rural electrification

Initiated the process of signing a Memorandum of understanding (MoU) with UEGCL (signed by VC)

Initiated a process of signing an MoU with UETCL (in the process)

OUTREACH: Help to maintain air source crop dryer and LPG gas dryer for vanilla farmers group in Kangulumira, Kayunga District.

Install and maintain smart weather station for the cocoa and vanilla farmers group

Publications

1. Kilama, G., Lating, P. O., Byaruhanga, J., & **Biira, S.** (2019). Quantification and characterization of cocoa pod husks for electricity generation in Uganda. *Energy, Sustainability and Society*, 9(1), pp22. (First Author)

2. **S. Biira** and G. Kilama (2014). *“Analysis of solar radiation in Uganda (A case study of Kasese, Jinja and Soroti Districts)”*, International Journal of Current Research. Vol. 6 pp.8110-8115. (second author)

Work Experiences and Responsibilities held

2020 to date Assistant Lecturer, Busitema University

Presenting lectures, evaluating and setting practical tests in Electrical Engineering programs
Supervision of engineering students on internship, supervision of final year engineering research project, carrying out research and outreach.

A member of the technical committee of the Busitema 4MW PV solar power plant project

A member of the Construction Management Team for the construction of the Institute of Marine Institute, Faculty of Environmental Science, Busitema University.

2022 to date Systems Operation and Maintenance Engineer, Volt-Terra Farm and Energy solutions Ltd, 60kW Photovoltaic Solar with Battery energy storage System

- (i) troubleshooting of problems or performance deficiencies of the Facility,
- (ii) resolution of the problem or performance deficiencies of the Facility,
- (iii) Technical support to customers
- (iv) Household indoor installation and customer connection
- (v) Standard technical O&M activities

2011 to 2020 : Teaching assistant, Busitema University

Presenting lectures, evaluating and setting practical tests in Electrical Engineering programs
Supervision of engineering students on internship, supervision of final year engineering research project, Carrying out research and outreach.

2011 to 2018: Electrical Engineer, Megwa Technical Services

Planning, Supervision of Electrical works, documentation of the electrical works

2010 to 2021 Electrical Engineer, Vision Group

Planning, Maintenance of Power generators up 1000kVA capacity
Maintenance of company's 2MVA power sub stations and others.

Installation and maintenance of power conditioners; UPS, AVS and the switchgears

Supervision of works and service of contract service providers in the operations department

Coordination of Fire and safety measures

Coordination of risk management in operations department

Documentation of installation and maintenance activities in operations department

2013 to 2015: Electrical Engineer HEST ENGINEERING

Supervision of power line extension
Installation of power stations
Power safety priority project

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References

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