

## Loretta Dhahabu Jefwa

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### SUMMARY

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Experienced Renewable Energy Engineer skilled in Renewable Energy Systems, HSE, ESG, Environmental Impact Assessment, Climate Change, Project Management and Environmental Sustainability. Strong engineering professional with a BSc in Renewable energy and environmental physics focused on Renewable energy and environmental science from Jomo Kenyatta University of Agriculture and Technology. I am a problem-solver with emphasis on Energy access, Environmental conservation, climate change, waste management and sanitation through renewable energy. I am skilled in solar systems design, sizing, operation and maintenance activities, geothermal power production, well drilling, steam turbine maintenance, well quenching and reinjection, cooling tower maintenance. I am a resourceful, result oriented, self-motivated and team player, looking for opportunity to work in challenging position in a dynamic organization, where I can use all my already acquired skills, at the same time acquiring new skills to achieve personal satisfactory as well as Company's goals and needs of the employer.

My attributes are to offer quality and effective services to the company through my position contribution by working effective and fully using my knowledge.

To work in a competitive environment to meet service standard and work with or without supervision.

### SKILLS

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- ❖ Energy Auditing
- ❖ Environmental Impact Assessment
- ❖ Maintenance of the transformers (including oil filtration and testing), inverters.
- ❖ Measurement of earth pit resistance
- ❖ Electricity meter reading and testing
- ❖ Perform HSE Tasks
- ❖ Troubleshooting of faulty strings and fans.
- ❖ Installation of solar panels
- ❖ Inspection of Weather monitoring station, Soil Monitoring Station.
- ❖ Maintenance of steam turbines, generators, and Cooling Towers in the geothermal field.
- ❖ Drilling and Maintenance of well heads in the geothermal field such as reinjecting and quenching of wells.
- ❖ Software Development
- ❖ Web Design
- ❖ Ability to interpret electrical drawings.
- ❖ Excellent verbal and written communication skills
- ❖ Data collection and analysis
- ❖ Community mobilization and sensitization on energy planning
- ❖ Documentation, analysis and submission of HSE reports
- ❖ Lead in Socio-economic development projects.
- ❖ Time management
- ❖ Ability to establish effective working relationships.
- ❖ Excellent Report Writing Skills
- ❖ Project management

### PROJECTS

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#### Renewable Energy and Environment Conservation | Jomo Kenyatta University of Agriculture and Technology

January 2020 – December 2020 | Juja-Kiambu

- ❖ Briquettes Production from Coffee husks and clay. - The project was majoring on the environmental sustainability. Kiambu County, being an area where coffee is grown in vast lands, the project was meant to help reduce the rate of deforestation in Kiambu County area by re-using the coffee husk.

2021 | Ganze-Kilifi

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- ❖ I was privileged to train fellow youths from Ganze sub-county on the briquettes making idea. We ended up forming a self-help group for the youths which has other projects ideas such as campaigning on tree planting, which goes hand in hand with the briquette making project to reduce the rate of deforestation in Ganze sub-location.

## EXPERIENCE

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### ESG Intern | Malindi Solar Power Plant - Globeleq

May 2023 - Present | Langobaya – Kilifi County

- ❖ Provide technical support in Module and y-connector replacement.
- ❖ Providing support in maintenance of the transformers, inverters and module strings.
- ❖ Assisting in collection, compilation and analysis of the HSESS matrix data.
- ❖ Provide support in the measurement of earth pits resistance.
- ❖ Participate in Inspection of Transformers, Inverter stations, RMUs, WMS and SMS.
- ❖ Assisting in the follow up and supervision of ongoing sub-contractor projects at site.
- ❖ Participating in HSE Awareness and other site meetings.
- ❖ Providing technical support in testing of CTs and PTs.
- ❖ Engaged in the transformer oil filtration and testing activity.
- ❖ Assisting in conduction of safety induction trainings to all site visitors and sub-contractors.
- ❖ Participating in implementation, monitoring and evaluation of socio-economic development projects such as irrigation projects.
- ❖ Engaging in continuous learning and professional development activities through the IFS learning platform.
- ❖ Preparation of work orders and permits to work documents accompanied with a risk assessment document for the specific task to be executed prior to work.
- ❖ Provide technical support in faulty string troubleshooting and fuse replacement.

### Renewable Energy Officer | Kilifi County Government – Energy Department

March 2023 – May 2023 | Kilifi

- ❖ Engaged in the development of the Kilifi County Energy Plan Draft Document.
- ❖ Lead in public participation and community engagement meetings on matters related to Energy.
- ❖ Replaced and installed solar high masts streetlights.
- ❖ Contribute Positively to the environment sector and Climate change department.
- ❖ Draft reports and proposals
- ❖ Conduct community trainings on the importance, production and use of briquettes.

### Engineer | Olkaria Geothermal Power Plant – KenGen

May 2019 - August 2019 | Naivasha-Kenya

- ❖ Participated in the cooling tower maintenance activities such as replacement of cooling tower fan blades.
- ❖ Provided technical support in Steam Turbines and Generator Maintenance.
- ❖ Engaged in replacement of steam turbine diaphragm.
- ❖ Participated in Machining, gas cutting and welding activities at the steam field department.
- ❖ Did Normalization of condensate drain pots.
- ❖ Engaged in the Cleaning of silencers at the wellheads.
- ❖ Maintaining compressors
- ❖ Improved on my report writing skills.
- ❖ Participated in the Commissioning of Olkaria V.
- ❖ Checking Hydraulic oil levels and engine coolant levels.
- ❖ Provided technical support during the Inspection of the geothermal wells.
- ❖ Engaged in the geothermal well drilling.

## EDUCATION

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**Jomo Kenyatta University of Agriculture and Technology** | Bachelor of Science in Renewable Energy and Environmental Physics  
Graduated April 2021

- Second class lower.

**ALX Software Engineering Program** | Frontend Software Development Certificate.

Graduated April 2023

- Certificate.

**Moringa School** | Software Engineering Certificate

Graduated November 2022

- Certificate.

Pwani Teknowgalz coding centre | Mobile app development using Kodular.

Graduated August 2021

- Certificate.

## **VOLUNTEER EXPERIENCE**

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- ❖ **Kenya Red Cross:** Participated in tree planting exercises, Proper municipal waste management, public participation engagement.
- ❖ **Super Self-Help Group:** In charge of planning, implementation and coordination of all projects.

## **INTERESTS**

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- ❖ Environment conservation and sustainability
- ❖ Soccer
- ❖ Hikes and Team building events.
- ❖ Charity events

## **REFEREES**

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- 1) Jonathan Jefwa  
Maintenance planner at Kivuwatt Ltd Rwanda  
Tel: 0720905418  
Email: [jefwakaingu@gmail.com](mailto:jefwakaingu@gmail.com)
- 2) Moses Karema Mlewa  
Director ICT County Government of Kilifi  
Tel: 0725504456  
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1. Dr. Calvin Ominde  
Chairman Physics department JKUAT main campus  
Tel: 0720662605
- 3) Wilfred Baya  
Assistant Energy Director – Kilifi County Govt  
Tel: 0713619022
- 4) Mr Tambo Charo  
Social and HSE Officer | Malindi Solar Power Plant  
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- 5) Eng. Ali Chuka  
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