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PERSONAL INFORMATION

Nationality: Kenyan
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Languages: English (Fluent), Kiswahili (Fluent), Maasai (Fluent)

PROFESSIONAL PROFILE

A licensed (EPRA/SPVT/00969) renewable energy technologist with expertise and passion for access to clean energy technologies for rural, off-grid communities and grid connected. I have professional experience in development of renewable energy projects including solar technologies. Currently a Solar PV Trainer & Renewable Energy Technician, Renewable Energy Research Consortium, MMU, Kenya.

OBJECTIVES

To be part of a team of skilled and conscious workforce that deploys decentralized renewable energy solutions within and beyond the East-Africa region thus enhancing access to energy in rural communities. I am looking to apply my knowledge to achieve remarkable performance as a result of giving service to the society by educating the public on the use of green energy, climate change & environmental awareness and conducting research that leads to sustainable energy deployment.

ACADEMIC BACKGROUND

2021-to date: Masters in Renewable Energy & Technology

Multimedia University of Kenya

2016 – 2020: Bachelor of Science in Renewable Energy & Technology

First Class Honors

Multimedia University of Kenya

Main Areas covered: Solar PV, Solar Thermal, Geothermal, Biomass, Wind, Hydro & Nuclear energy, Energy Management and Auditing.

2012 – 2015: Kenya Certificate of Secondary Education (KCSE) B+ (69/84 Points)

Rombo Girls Secondary School

2004-2011: Kenya Certificate of Primary Education (KCPE) A- (377/500 marks) Kilimanjaro

Junior Academy, Loitoktok.

PROFESSIONAL SHORT COURSES

- T1/T2 Solar PV-*Multimedia University of Kenya*
- T3 Grid-Tie Solar PV Systems-*Multimedia University of Kenya*
- Solar Water Pumping-*Multimedia University of Kenya*
- Computer Applications-*Kiwan Institute of Computer Studies*

PROFESSIONAL AND CAREER EXPERIENCE

CURRENT POSITION

Solar PV Trainer & Renewable Energy Technician at Renewable Energy Research Consortium (RERC)–Multimedia University (2019-to-date).

Main duties:

- i. **Research:** <https://www.mmu.ac.ke/renewable-energy-research-consortium-rerc/>
 - Identify, formulate and propose joint research projects.
 - Conduct research, as contract research or academic research projects.
 - Publish results in theses, reports, papers and articles.

ii. Consultancy:

- Specialist consulting, e.g. feasibility studies and assessments.
- Policy advice for the University and public sector on renewable technologies.
- Workshops, awareness, specialized and in-house short courses.

iii. Training:

- Coordinate Renewable Energy Professional short courses at RERC.
- Training T1/T2 SPV and T3 short courses.

Solar PV Trainer –University of Nairobi Solar Academy (2022)

Conducting trainings on Solar Photovoltaics on T2 and T3 levels.

Trainings are majorly to impact the learners on Solar Technology and Applications; Solar PV Sizing; Electricity Basics; Hands-on Installation Training; Load Designing; Energy Efficiency; Solar Resources and Orientation; System Components (PV Modules), System Components (Batteries); System Components (Controllers & Inverters); PV System Design Software; Site Survey and Shading Assessment; Troubleshooting, Operation & Maintenance; Commissioning & Safety Basics.

T3 Grid Tie Solar PV Trainer

As a licensed Solar T3 technician, the major topic I teach are DC & AC basics; PV modules; Maximum Power Point Tracking; Stand-alone Vs. Grid tie system; Generator junction box; Grid tie inverters; Solar Design Software; Module installation, Demonstration and Stringing of PV modules; Tools and measuring instruments; Testing protocols RCD test; Project design Grid tie system, Monitoring systems, Data logging and System components configuration;

VET4Africa Trainer of Trainers (ToT) (2020 to date)

Involved in training institutions in Kenya both colleges and universities on Solar Photovoltaics. Main trainees are the institutions technical staff and lecturers who we impact with knowledge and skills to train others in their respective institutions. I also trained county energy officers from 14 underserved counties under the Kenya Off Grid Solar Access Project (KOSAP)

PREVIOUS POSITIONS HELD

Energy Researcher Internship: Kenya Industrial Research & Development Institute

(May2019-to-August2019).

Main duties:

- Clean Cook Stove Testing using the International Standard Organization (ISO) guidelines to determine their performance, emissions and efficiency.
- Participating in research on renewable energy fuels production.
- Doing calibration and maintenance of the stoves laboratory LEMs system.
- Analyzing and projecting solar array power production. □ Designing and implementing solar systems.

OTHER EXPERIENCES

Energy Surveying: Hivos NGO (November 2019)

Roles: Conducting an energy survey in Kajiado County.

Skills Acquired: Verbal Communication, Data Collection, and Data Analysis.

Technical Field Officer: Greenmount Energy Consultancy ltd (2021 to date)

Overseeing all field operations related to solar projects, including prospective project search, project construction/implementation, and monitoring and evaluation

CONFERENCES/WORKSHOPS ATTENDED

1. Micro Grid Academy training on Decentralized Renewable Energy-Site Selection and Engineering 29th-5th May 2021
2. Online Webinar on Research Methods for Solar PV, 14th-15th April 2021
3. Vocational Education and Training for Africa (VET4Africa) Photovoltaic 1 Training of Trainers from 15th-26th March 2021, Multimedia University of Kenya Centre for Renewable Energy Research, Nairobi, Kenya
4. Online Webinar on Climate Change & Sustainability, 30th March 2021

5. Online Webinar on Renewable Power Generation and Energy Storage Systems, 13th March 2021
6. Solar PV (T1/T2) Training (as a trainer) from 18th-22nd January 2021, Multimedia University of Kenya Centre for Renewable Energy Research, Nairobi, Kenya
7. United Nations Online Conference on Youth Sustainable Energy Hub Launch on 11th November 2020
8. Solar PV T3 Grid Tie Training (as a trainee) from 16th-20th December 2020, Multimedia University of Kenya Centre for Renewable Energy Research, Nairobi, Kenya.
9. Solar PV (T1/T2) Training (as a trainer) from 30th November-4th December 2020, Multimedia University of Kenya Centre for Renewable Energy Research, Nairobi, Kenya.
10. The 5th Multimedia University of Kenya Research and Innovation Conference on Clean Energy with a project on “Portable Fruit waste bio digester for biogas production” from 26nd-28th February 2019 at Multimedia University of Kenya

MEMBERSHIP OF SCIENTIFIC SOCIETIES

1. Energy and Petroleum Regulatory Authority (EPRA) license no. EPRA/SPVT/00969
2. Member Association of Energy Professionals Eastern Africa (AEPEA)-Membership No. A229

SKILLS

- Communication Skills: Confident, Excellent in Presentations, Persuasive Speaker, Good Verbal and written communication skills, good listener, open-minded
- Organization/managerial skills. Good team player, Time Cautious, Creative Thinker, Conflict resolution, multi-tasking.

ADDITIONAL COMPETENCIES

1. T1/T2 Solar PV Technician
2. Licensed T3 Grid-Tied Solar PV Technician.
3. Solar PV system software designing:
4. Proficient on Academic Research Proposal Writing.

ACADEMIC AND PROFESSIONAL REFEREES

Dr. David Wekesa

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