

Veronica KavilaNgunzi

Personal Details

Gender:	Female	Language:	English, Swahili
Date of birth:	22 nd April, 1984	ORCID iD:	https://orcid.org/0000-0002-1019-4828
Nationality:	Kenyan	Google Scholar:	https://scholar.google.com/citations?view_op=new_articles&hl=en&imq=Veronica+Ngunzi#
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Profile

Passionate education professional seeking a highly challenging position, especially in the areas of Agricultural Engineering, Renewable Energy, Energy Management and Project Management with exceptional creativity, problem solving and interpersonal skills.

Career Objective

To come up with new and noble ways of optimizing and improving energy efficiency by devising interesting energy options for commercial and domestic solutions as well as keeping abreast with new developments and trends around the world through research.

To be part of active and creative team that plays a dynamic role in the achievement of the organization objectives.

Skills and competencies

- Energy management, program development
- Engineering Design Development
- Renewable energy technology
- Solar photovoltaic
- Solar thermal
- Energy auditing
- Energy conservation
- Knowledge of HVAC and lighting systems
- Carbon management
- Knowledge of energy consumption issues
- Ability to translate technical specifications
- Knowledge of waste heat recovery
- Mechanical systems design/implementation
- Process piping
- Microsoft Office Suite
- Autodesk AutoCAD software
- 3D Modelling
- MATLAB
- HOMER
- AURORA SOLAR
- PVSyst
- SPSS
- Data management
- Refrigeration and air conditioning
- Thermodynamics
- Project management
- Research and technical analysis
- Motivating learners through interactive teaching
- Creative problem solving through critical thinking
- Flexible and accommodating to new ideas
- Ambitious and self-motivated

Education and Trainings

Kenyatta University- 2021

- PhD in Renewable Energy Technology – Ongoing
- World Energy Day Conference 2020

Kenyatta University- 2020

- Train the Trainer on Innovation and Entrepreneurship training
- Seminar for Researchers on Research Grants Administration
- Training of New Staff on Gender and Sexual & Gender Based Violence Policies

Energy Regulators Association of East Africa (EREA)-2020

- Energy leadership webinar- shaping the future of East Africa

Jomo Kenyatta university of Agriculture and Technology- 2018

- Double degree in Agricultural Engineering - Second Class Upper Division

Strathmore University- 2017

- T3 Grid Tie and Hybrid Training

Jomo Kenyatta university of Agriculture and Technology- 2016

- Solar Photovoltaic Technician Training

Strathmore University- 2016

- Solar Photovoltaic Technician Training

University of Nairobi, 2015

- Master of Science Degree in Energy Management

Kenya institute of management Kim, 2012

- Post Graduate Diploma in Project Management - Upper Credit

Jomo Kenyatta university of Agriculture and Technology - 2009

- Graduate Engineer in BSc. Biomechanical and Processing Engineering- Second Class Upper Division

Professional Experience

- 1. Tutorial Fellow (Kenyatta University- School of Engineering and Technology Department of Energy Technology) May 2020 to Present**
- 2. Tutorial Fellow (Kisii University- School of Engineering and Innovative Technology) July 2018 to April 2020**
- 3. Teaching Assistant (Kisii University- School of Engineering and Innovative Technology) August 2013 to June 2018**
- 4. Part time Lecturer**
Rongo University.
Jomo Kenyatta university of Agriculture and Technology
- 4. Project Coordinator**
September 2011 to August 2012
Nature Craft Enterprises

5. Technical Sales Assistant

January 2010 to August 2011.

Cimbria East Africa Ltd.

6. Supervisor

August 2009 to September 2009

Kenya National Bureau of Statistics (Census)

Accomplishments

Research and Publication Work

Ngunzi V.K (2015), Analysis of Energy Cost Savings by Substituting Heavy Fuel Oil with Alternative Fuel for a Pozzolana Dryer Case Study of Bamburi Cement, *American Journal of Energy Engineering*. Vol. 3, No. 6, 2015, pp. 93-102. doi: 10.11648/j.ajee.20150306.13

Ngunzi V.K et.al (2014), 'Simulation Model for Predicting Drying in the Automated Grain Dryer' International Journal of Engineering & Science Research IJESR/March 2014/ Vol-4/Issue-3/193-201 e-ISSN 2277-2685, p-ISSN 2320-9763.

Presented a conference paper on Simulation Model for Predicting Drying in the Automated Grain Dryer at the 8th JKUAT Scientific and Technological Conference 2013.

Part of a project team carrying out a research in Biogas Resource Assessment, Purification and Packaging for Commercial Household cooking" funded by Ministry of Higher Education Science and Technology National Council for Science and Technology

Part of a project team that developed a solar water heating training manual for the Kenyan Industry funded by the UNDP (Low carbon emission project)

Part of a project team that implemented a project on sustainable energy for Agriculture sponsored by the GIZ

Part of the team that developed the curriculum for Bachelor's Degree in Electrical and Telecommunication Engineering for Kisii University

Part of the committee implementing the equipment for engineering laboratory for Kisii University

Scholarships

Gandhi Scholarships - University of Nairobi

Project Management:

Supervised team of six to ensure projects stayed on track and were delivered on budget.

Supervised project implementation efforts to ensure projects were completed to company standards, on schedule and within budget constraints.

Supervision

Supervised and maintained construction sites to ensure effective implementation of projects
Acted as coordinator of the Department of Engineering and Innovative Technology, Kisii University (June to July 2017)

AutoCAD Software Utilization

Produced drawings, maintained, archived and retrieved CAD files and drawing documents for the Completion of seven commercial projects which included; Agroways Uganda Ltd, McNeel Millers Ltd in Thika, Bakex Millers Ltd in Thika, Mt Meru Millers in Zambia, Sigma Feeds TwarabOlesirkon, Master mind Tobacco Ltd and Mt Meru Millers Singida in Tanzania

Detail Drafting

Created detailed shop fabrication drawings for projects involving civil works for assembly and installation.

Installations

Successfully installed a coffee processing plant in Louis Dreyfus Commodities (K) in Nairobi.
Successfully designed an excellent insulation/energy saving system for a cotton fiber laboratory

Memberships

Engineers Board of Kenya- Graduate Engineer

Women in Sustainable Energy and Entrepreneurship(WISEE)- Member

Referees

1. Dr, Eng. Gareth M. Kituu, REng, MIEK
Chairman- Department of Agriculture and Biosystems Engineering
Jomo Kenyatta University of Agriculture and Technology,
P. O Box 62000-00200,
Nairobi.
Tel: +254-727-495-380, +254-735-458-283
 2. Dr, Eric Ronoh
Lecturer- Department of Agriculture and Biosystems Engineering
Jomo Kenyatta University of Agriculture and Technology,
P. O Box 62000-00200,
Nairobi.
Tel: +254720352626
 3. Dr. J.M. Kilika
Chairman - School of Business
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Nairobi.
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