Peter Mwangi

Software Engineer

I am a passionate programmer with experience in web application and API development. I have a growth mindset, strive for perfection, collaborative and adaptable to changes in workflow and development cycles.

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WORK EXPERIENCE

Tutor, Electrical and Electronic Engineering Department.
Machakos Institute of Technology ⬈

10/2018 – Present   *Machakos, Kenya*
Technical training and education.

Achievements/Tasks
- Teaching and evaluating student progress in the assigned units such as engineering mathematics, technical drawing and design.
- Supervising projects, practical work and industrial attachment.
- Advising the management on required materials and preparing all the professional teaching documents.

Contact: *The Principal, Mr. Okuthe – principal@mit.ac.ke*

Intern, Drilling Operations Department.
Geothermal Development Company ⬈

01/2017 – 04/2017   *Nakuru, Kenya*
Geothermal energy exploration and drilling.

Achievements/Tasks
- Operating drilling rig components and associated systems.
- Monitoring well control systems and observing safety measures.
- Carrying out routine maintenance of drilling components.

Contact: *Denis Barkebo – barkebodenis@gmail.com*

Intern, Technical Services, Operations and Maintenance Department.
Kenya Power ⬈

01/2016 – 04/2016   *Naivasha, Kenya*
Electricity transmission and distribution.

Achievements/Tasks
- Operating relays and auto-reclosers used for protection of transmission and distribution systems.
- Programming microprocessor based HV auto-reclosers.
- Installing, inspecting, testing and maintaining HV and LV overhead transmission lines and transformers.

Contact: *Denis Masiga*

EDUCATION

Bachelor of Science Degree
Dedan Kimathi University of Technology

09/2012 – 04/2017   *Nyeri, Kenya*
Courses
- Electrical and Electronic Engineering.
- Final Year Project: Voice Recognition in MATLAB

SKILLS

Python · JavaScript · MATLAB · HTML5 · CSS3 · React · Flask · Git · AWS · Database Management · Version Control CI/CD

PERSONAL PROJECTS

Voice Recognition in MATLAB (04/2016 – 01/2017)
- Trained and tested a voice recognition model by extracting features from acoustic signals and matching them using Vector Quantization techniques.

Notice Board (08/2018 – Present) ⬈
- Created a web application where notices can be easily created and served to users. Suitable for an educational institution.

Suggestion Box (04/2019 – Present) ⬈
- Designed and deployed an REST API that lets users create, read, update and delete suggestions. Also implemented a React app that consumes the same API.

ORGANIZATIONS

Engineers Board of Kenya (12/2017 – Present)
Graduate Engineer

Geothermal Association of Kenya (06/2017 – Present)
Member

INTERESTS

Web Development · Internet of Things · Machine Learning · Artificial Intelligence