Osodo Rodney David

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I am a highly skilled electronics engineer with a passion for designing and developing innovative electronic systems and devices. With a strong background in both theory and practical application, I have a unique skill set that allows me to approach problem-solving from multiple angles and find creative solutions to complex challenges. Throughout my career, I have worked on a wide range of projects, including the design of circuit boards and electronic devices, the development of firmware and software for embedded systems, and the integration of electronics into mechanical systems. In addition to my technical skills, I am a strong team player with excellent communication and problem-solving abilities.

Technical Skills

Languages: Go, Rust, Python, C/C++, SQL (Postgres), Matlab
Softwares: Matlab, Proteus, Autodesk Fusion, Easy EDA, KiCAD
Developer Tools: Git, Docker, Google Cloud Platform, PyCharm
Technologies: Renewable Energy, E-mobility, Embedded Systems, Artificial Intelligence

Education

IBM Summer School Online
Quantum Computing, Minor in Machine Learning *Sep. 2020 and Sep 2021*

Jomo Kenyatta University of Agriculture and Technology Nairobi, KE
Bachelor of Science in Mechatronics Engineering *Sep. 2017 – Dec 2022*

- Designed and fabricated a prototype mobile platform with holonomic and omnidirectional motion.
- Designed wearable device that helps the visually challenged people to accomplish their day to day task.

Experience

Software Engineer Jan 2022 – Present
Remote, Nairobi *Ultraviolet, Serbia*

- Build, tested, documented and maintained Go backend micro-services.
- Intergrated a multi-broker, Nats, RabbitMQ or Kafka setup for the internal message broker.

Software Engineer Jul 2019 – Present
Juja, Nairobi *Qualislabs, KE*

- Worked with hardware and firmware engineers to build our API responsible for image processing.
- Build and maintained a Kubernetes cluster to handle all our API calls.

Rocket Scientist Intern Feb 2021 – May 2021 & Jan 2022 - Apr 2022
Jomo Kenyatta University of Agriculture and Technology *Nakuja Project, KE*

- I was able to do a comprehensive design of the Avionics and Airframe rocket sub-systems.
- Implemented Kalman filter using sensor fusion to detect apogee.
- I was able to participate in the SRI conference and submitted a technical paper.

Projects

Ujuzi Device | *Docker, Easy EDA, Smart devices* Oct 2020 – May 2022

- Developed the PCB of Ujuzi device.
- Tested ujuzi device with Apple HomeKit and Google Home.

Mavuno application | *Python, Go, Kubernetes* Nov 2020 – Jan 2021

- Developed and maintained the backend website application.
- Developed predictive model to match food donors to consumers.

Technical Experience

- Submitted a paper to the SRI conference held at JKUAT
- Won the JKUAT Tech Expo 10.0
- Got called to the IBM Quantum Africa Hackathon
- Got accepted to the Quantum Open Source Foundation program
- Regional Finalist at the IBM Call for Code Challenge