

JEROME MUTITU WACHIRA CV

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Residence: Nairobi, Kenya

Gender: Male

Professional Summary

Detail-oriented and analytical B.Sc. Electronics graduate with a strong academic background and hands-on experience in circuit design, embedded systems, and sensor-based projects. Eager to contribute technical expertise in a dynamic and innovative environment. Strong foundation in electronics principles, excellent problem-solving skills, and a keen interest in technology development.

Education

Bachelor of Science (B.Sc.) in Electronics
SOUTH EASTERN KENYA UNIVERSITY
2018 – 2022

Relevant Coursework:

- Analog & Digital Electronics
- Microprocessors and Microcontrollers
- Electronic Instrumentation
- Communication Systems
- Embedded Systems
- Control Systems

Technical Skills

Area	Skills
Microcontrollers	Arduino, Node MCU, Raspberry Pi
Programming	C, Python, Embedded C
Simulation Tools	Proteus, Multisim, MATLAB, LTSpice
PCB Design Tools	Eagle, KiCAD
Technologies	IoT, Sensors, Serial Communication, Wireless Modules
Other	Installation, Soldering, Debugging, Technical Report Writing

Projects

Smart Energy Monitoring System

- Developed a system using Node MCU and current sensors to monitor and transmit energy usage data over Wi-Fi.
- Implemented real-time updates on a mobile dashboard using Blynk App.

Object Counter Using IR Sensors

- Designed and implemented an automatic object counter using IR sensors and microcontroller. Displayed count using a 16x2 LCD.

Digital Alarm Clock using RTC Module

- Built a working prototype of a digital clock with alarm features using DS3231 RTC and Arduino.

Home Labs for cyber security in virtual environments

- Running a SIEM and XDR solution in Wazuh using virtual box, Ubuntu
- Running a network firewall in Pfsense using virtual box, kali linux, Ubuntu
- Others using raspberrypi

Attachment

Kenya Electricity Generating Company PLC(KenGen)

- Maintenance transmitters
- Loop check of transmitters
- Calibration of sensors, alarm switches and transmitters
- Troubleshooting of Tri loop feedback
- Report writing

Workshop on IoT and Home Automation

- Hands-on training on interfacing sensors with Node MCU and creating app-based controls.
- Raspberry pi projects

Languages

- English – Professional Proficiency
- French – A1

Hobbies & Interests

- Circuit prototyping, crypto mining, hardware hacking
- Reading about new electronics trends, Cyber security, Quantum computing, cloud
- Participating in tech forums and maker communities
- Cyber security awareness