




Winjoy Ntinyari Mwiti

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Professional Summary

I am an Electrical and Telecommunication Graduate Engineer with hands-on experience in network operations, cloud computing, and cybersecurity. Through internships at Safaricom, KPC, and Kenya Power, I've worked on projects involving PLC systems, DWDM network integration, IPRAN network support, and network monitoring. I've gained practical skills in configuring and provisioning routers, switches, and firewalls, as well as securing cloud infrastructure using AWS services. I'm currently training for the AWS Cloud Certified Practitioner certification through AWS re/Start, and deepening my expertise in network and cloud security through the Cyber Shujaa program, while also building skills in software development. My work reflects a deep interest in secure, scalable networks and a strong foundation in both traditional infrastructure and cloud-native environments.

Experience

Converged Networks Support Intern

10/2024 – 04/2025

Safaricom PLC

- Supported transmission networks (DWDM, IP RAN, SDH) by troubleshooting about 10 faults and optimizing performance.
- Assisted in upgrading around 10 IP RAN links and 2 RSG swaps, gaining hands-on experience in configuration, testing, and troubleshooting.
- Gained exposure to network monitoring at the Service Operation Centre, analyzing real-time performance for about 100 network elements.
- Assisted in installing, configuring, and testing DWDM equipment for a 100G link before commissioning.
- Supported software upgrades for over 10 network devices during SRv6 migration, ensuring minimal disruption.
- Gained hands-on experience with routers, switches, firewalls, and load balancers; used SolarWinds, Cisco DNAC, and SmokePing for monitoring and troubleshooting network performance.

Electrical Engineering Attache

09/2024 – 10/2024

Kenya Power and Lighting Company

- Conducted field inspections of over 100 electricity meters, ensuring accuracy, detecting tampering, and supporting revenue collection through billing verification and issue resolution.
- Assisted in maintaining and troubleshooting metering systems, resolving billing and service issues for more than 20 customers.

Instrumentation and Control Attache

10/2023 – 12/2023

Kenya Pipeline Company

- Calibrated and maintained 20 sensors and instruments (pressure, temperature, flow, level), and assisted with PLC maintenance.
- Troubleshot instrumentation and control systems, resolving issues with diagnostic tools, and monitored petroleum flow across 1000 km of pipeline and multiple pumping stations using SCADA systems.

Education

Bsc Electrical and Telecommunication Engineering

09/2019 – 11/2024

Multimedia University of Kenya

Kenya Certificate of Secondary Education

01/2015 – 12/2018

Chogoria Girls High School

Technical Skills

Programming C, C++, Java, HTML, CSS, Python	Software/Tools AutoCad, MS Suite, SCADA, NCE	IoT Arduino, ESP 32 Network Support	Hardware and Software Troubleshooting
Hardware and Software Installation	Business Continuity Planning and Change Management Process		

Projects

IoT Based Intelligent Irrigation System for Small Farms
Integrated microcontroller-based automation into irrigation systems, enabling small-scale farmers to utilize smart technology, improving crop yield while enhancing efficiency and reducing manual labor.

Provisioning of an 100G DWDM Optical Link
I participated in provisioning a 100G DWDM link to enhance network capacity. My role included deploying DWDM equipment, managing patching between electrical and optical boards, creating optical channels, assigning wavelengths, and testing the link for optimal performance before commissioning.

Certificates

Introduction to ITIL V4 | CyberSecurity for Associates | Networking Basics