Winjoy Ntinyari Mwiti

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Professional Summary

I am a recent graduate in Electrical and Telecommunication Engineering with hands-on experience in network infrastructure, fiber optics, and transmission systems. Through internships, I've supported provisioning and maintenance of DWDM, IP RAN, and SCADA systems, assisted in hardware and software upgrades for various network equipment. I've also been involved in basic configuration tasks and equipment audits. I bring a strong work ethic, attention to detail, and a commitment to continuous learning.

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 • **Software/Tools** — AutoCad, MS Suite, SCADA, NCE • **IoT** — Arduino, ESP 32 • **Hardware and Software Troubleshooting** • **Hardware and Software Installation** •

Business Continuity Planning and Change Management Process • **Network Support**

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