

Ouma Jacob Omondi

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PROFESSIONAL PROFILE

I am a dedicated Electrical and Telecommunications Engineering graduate eager to acquire hands-on experience, grow my Network engineering career, and contribute to Kenya's ICT infrastructure. I possess intellectual inquisitiveness, dedication, and a steady commitment to academic, professional, and personal growth. My excellent communication, adaptability, collaboration, commitment to continuous learning, and strong interpersonal skills enable me to contribute effectively in fast-paced environments.

SKILLS

- IT Support
- Networking – TCP/IP suite, DHCP, and routing protocols
- Subnetting
- Linux – Ubuntu, Debian, & Fedora
- Structured cabling
- Power Systems & Energy Management - familiarity with circuit breakers and transformers.
- Renewable energy - Knowledge of solar PV systems.
- Project Management & Report writing
- Leadership & Teamwork

WORK EXPERIENCE

Network Operations Centre Intern | KENET, Oct 2024 - present

- Monitoring and Troubleshooting Customer Network Infrastructure:** Proactively monitoring customer network infrastructure, including routers, switches, firewalls,

and servers, to identify and resolve performance issues, connectivity problems, and security vulnerabilities.

- ii. **Generating Availability Reports for Various Links:** Developing and generating network availability reports for various network links, providing insights into network performance, uptime, and downtime.
- iii. **Supporting Help Desk Operations and NOC:** Providing technical support to end users through help desk operations, resolving network-related issues and answering technical inquiries.
- iv. **Executing Campus Network Installations:** Actively participating in the installation and configuration of campus network infrastructure, including configuring and deploying network devices, connecting end-user devices, and ensuring seamless integration with existing systems.
- v. **Supporting the Building Opportunities / Leveraging Technologies (BOLT) project:** This project aims at advancing internet access and connectivity for up to 20 institutions in the neighborhood of rural Kenyan Universities on the KENET last-mile fiber. I am actively engaged in supporting the integration of links to the institutions, configuring the devices, and dispatching the required equipment. Also, I assist with coordinating the filling of commissioning forms for these sites.
- vi. **Supporting link integration and testing:** Helping with the connection of new institutions to the KENET fiber as well as verifying the functionality of the links by checking the signal strengths as well as throughput levels, and link latency.

Student Attaché | Innovis Telecom & Network Consultancy PLC, Sept 2023 - Dec 2023

- i. **Maintained Base Transceiver Stations (BTS):** Ensured the continuous operation and optimal performance of Base Transceiver Stations (BTS) by conducting regular inspections, preventative maintenance, and troubleshooting activities.
- ii. **Monitored Site Equipment Performance:** Proactively monitored the performance of site equipment, including BTS, power systems, and transmission links, utilizing remote monitoring tools and on-site inspections.

- iii. **Responded to Network Faults and Executed Planned Maintenance:** Responded promptly and effectively to network faults, utilizing diagnostic tools and technical expertise to isolate and resolve issues.
- iv. **Compiled Daily and Weekly Reports:** Prepared and submitted comprehensive daily and weekly reports detailing network performance, maintenance activities, and incident summaries.

EDUCATION

<u>Year</u>	<u>Institution</u>
May 2025- Present	CyberShujaa: Cloud and Network Security Track
Sep 2019 – April 2024	Multimedia University of Kenya, BSc. Electrical & Telecommunications Engineering (First Class Honors)
Feb 2015 – Nov 2018	Maranda High School – Bondo (A-)

CERTIFICATIONS

- Cisco Networking Basics | Cisco
- Huawei Certified Internetwork Associate - Datacom v1.0
- Huawei Certified Internetwork Associate | Security
- Basics of Network Layer Protocols Micro Certification | Huawei
- Technical Support Fundamentals | Google
- Bits and Bytes of Computer Networking | Google

LEADERSHIP EXPERIENCE

- **Engineering Faculty Representative**, MMU Students' Association (MUKSA) | 2023-2024
- **Organizing secretary**, MMU Engineering Students' Association (MUKESA) | 2022-2023

PROJECTS

- **A Microcontroller-Based Improved Automatic Headlight Dimming System**

This university project involved designing a smart system that automatically switches between high and low beam headlights. Sensors (like LDRs) detect oncoming vehicle lights, and a microcontroller processes the input and dims the headlights to avoid glare, improving night driving safety. The system enhances responsiveness and energy efficiency compared to traditional manual dimming.

INTERESTS

- Industrial Automation & Control Systems
- Emerging Technologies (AI, 5G, IoT)
- Networking & Cybersecurity
- Energy Management & Smart Grid Solutions
- Mentorship & Mental Health Advocacy

REFEREES

- **Khamis Phitia** | Network Engineer, KENET | kphitia@gmail.com | +254 728 390300
- **Dr. Karanja Njoroge** | Lecturer, Multimedia University of Kenya | karanjarn2@gmail.com | +254 713 601558
- **Mr. Kipyegon Koech** | Chair, Electrical & Telecom Engineering, MMU | ekipyegon@gmail.com | +254 722 109886
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