

Adrian Kwach

ELECTRICAL & ELECTRONIC ENGINEER

Objective

Results-driven Electrical and Electronic Engineering student from the University of Nairobi, combining robust expertise in analog/digital electronics with advanced telecommunications specialization. Seeking to leverage comprehensive electronics design experience, CCNA certification, and ongoing CCNP Enterprise studies at Diageo. Offering distinctive capabilities in secure network architecture, electronic systems design, protocol optimization, and mission-critical automation infrastructure. Dedicated to leveraging innovative solutions to enhance Diageo's operational excellence and sustainability, while reinforcing the company's leadership in the global spirits industry.

Education

2021-2026

Nairobi University
BSc Electrical and Electronic Engineering

TECHNICAL EXPERTISE

- Telecommunications Engineering: Network protocols, RF systems, signal processing
- ELECTRONIC SYSTEMS: Analog and digital circuit design, embedded systems
- Computer Networks: Architecture design, network security, CCNA-level infrastructure
- Computer Systems Engineering: System integration, hardware-software interfaces

2017-2021

Kapsabet High School
High School Diploma

Kenya Certificate of Secondary Education (KCSE)
Grade A (82/84 points)

Honors and awards

September 2021 **Top Student Award**
Award for being among the top KCSE students in the country by Kapsabet High School.

Research experience

2023(Ongoing) **Institution** Nairobi University, Kenya
Position: Student Researcher
Advisor: Prof. Heywood Ouma

- Integration of 5G & 6G Technologies in smart cities
- Security challenges in 5G networks

Publications

2023(ONGOING) **ARTICLE**

Kwach A.O, "Beyond 5G: Developing 6G Framework for Advanced Communications and Autonomous Systems Integration" [In Progress] "

- Investigating ultra-secure quantum communications protocols for 6G military applications
- Researching AI-driven network optimization for hypersonic communication systems

Professional Certificates

2023-2026



CCNA CERTIFICATION, CISCO

I am a Cisco Certified Networking Associate, A certification that showcases a solid understanding of Networking principles and protocols in the Telecommunication field.

2024(ONGOING)

CCNP ENTERPRISE, CISCO, ANTICIPATED JUNE 2024

I am in the pursuit of the next level certification in the networking field, the Cisco Certified Networking Professional certificate that will showcase my ability to confidently design, configure, manage and deploy enterprise networking infrastructure.

Professional affiliations

2023(June- Dec) **Aftalah CGL/ HERUFI TECHNOLOGIES**
ICT SUPPORT ENGINEER:
Skills: IT procurement, Router and Switch configuration, Linux Administration, Network Administration, Help Desk support, IT Documentation, Cybersecurity Training.

Professional Bodies

2023 **ISACA STUDENT MEMBER**
ISACA. (CISA CERTIFICATION PURSUIT)

2022-PRESENT **IEEE STUDENT MEMBER**
Nairobi University, IEEE institute

Languages

English Native language

German A1 level speaker and learner

Computer skills

Programming Python, C#, C++, MATLAB, Docker and Kubernetes

Networking Network monitoring tools, Network Security, Kali Linux

Tools Cisco DNA, Meraki, VS code, GitHub, Kali Linux

Electronics Design Altium Designer, PSpice, VHDL, LTSpice

Industry Software AutoCAD, SolidWorks, LabVIEW

References

Vincent Milewa MD, Down To Earth Technology
vmilewa@dte.co.ke

Dan Onyango MD, Herufi Technologies
danonyango@herufi.co.ke