KEVIN KIPKORIR

TELECOMMUNICATIONS & AI ENGINEER

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Final-year Master of Professional Engineering student specializing in Telecommunications and Electronics at UTS. Experienced in 5G systems, AI-powered safety monitoring, RF antenna design, and mobile network analysis. Currently developing computer vision solutions achieving 94% detection accuracy on Nokia's 5G edge platform. Passionate about bridging telecommunications infrastructure with intelligent systems.

AREA OF EXPERTISE

5G/LTE Network Architecture	Computer Vision (YOLO)	RF & Antenna Design
Edge Computing & MLOps	MIMO-OFDM Systems	Python & MATLAB
HFSS Simulation	Signal Processing	Prompt Engineering
Cross-functional Collaboration	Technical Documentation	Problem Solving
Research & Analysis	Stakeholder Communication	Team work

KEY ACHIEVEMENTS

- Achieved 94% mAP50 detection accuracy on AI-powered PPE safety system using YOLOv11 and Nokia RXRM platform.
- Developed LTE-based water level sensing system achieving 4-6cm accuracy for flood monitoring applications.
- Designed 3-beam pattern-reconfigurable antenna at 4.98 GHz with 6.6 dBi gain and ±30° electronic beam steering.
- Built 2x2 MIMO-OFDMA simulator in MATLAB with Rayleigh fading channels and zero-forcing equalization.
- Reduced edge computing latency to sub-500ms for real-time safety alerts on 5G network slicing infrastructure.

PROFESSIONAL EXPERIENCE

Optik Consultancy, Botany NSW — 5G Research Engineer Intern
Nov 2025 – Feb 2026

- Developing AI-powered PPE safety monitoring system using YOLOv11 on Nokia 360° cameras and Temi robots.
- Implementing 5G network slicing for real-time video processing and edge computing applications.
- Integrating Nokia RXRM platform for construction site safety with sub-500ms alert latency.
- Collaborating with Nokia and UTS TechLab on 5G URLLC edge computing research.

Outlier by Scale AI, Remote — AI Evaluation Specialist
Mar 2025 – Present

- Developed prompts, evaluation rubrics, and annotation guidelines for large language models across diverse domains.
- Conducted model benchmarking and quality assurance through detailed output analysis and peer review.
- Maintained active engagement in AI communities, contributing to RLHF methodology improvements.

Safaricom PLC, Nairobi Kenya — Network Operations Intern
Aug 2017 – Oct 2017

- Deployed and configured network switches, core routers, and access layer equipment ensuring 99.95% uptime.
- Conducted root cause analysis of support issues for Kenya's largest telco serving 40M+ subscribers.
- Coordinated with 3rd party contractors on SLA compliance and policy recommendations.

Kenya Power, Nairobi Kenya — IT & Telecommunications Intern
May 2016 – Jul 2016

- Installed and maintained Cisco IP phones, analog PABX systems, and supported NOC operations.
- Conducted fiber optic splicing, termination, and testing using OTDR, VFL, and power meter tools.
- Gained exposure to SCADA systems and telecom infrastructure at power substations.

EDUCATION

Master of Professional Engineering — Telecommunications & Electronics
University of Technology Sydney | Feb 2023 – Dec 2025

- Thesis: Feasibility of Using Mobile Network Signals for Water Level Sensing
- Focus: 5G mm-Wave, Wireless Sensor Networks, RF Engineering, Signal Processing

BSc Electrical & Electronics Engineering + BSc Telecommunications Engineering
Jomo Kenyatta University of Agriculture and Technology (JKUAT) | 2013 – 2022

- Dual degrees with focus on digital communications, antenna theory, embedded systems, and control systems

ADDITIONAL INFORMATION

- Technical: Python, MATLAB, HFSS, Docker, Git, Linux, YOLO, TensorFlow, Open5GS, srsRAN
- Memberships: Engineers Australia (Student), Engineers Board of Kenya (Graduate Engineer)
- Certifications: Certificate III Individual Support, First Aid & CPR (HLTAID011, HLTAID009)
- Interests: 5G research, AI/ML applications in telecommunications, fishing
- Soft skills: Teamwork, Technical Leadership, Adaptability and problem solving