Paul Mwangi Waithira

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PROFILE

Tech-driven Radiation Safety Officer & STEM Educator with a Bachelor's in Physics (Electronics) and proven success in digital transformation, IoT product development, and radiation compliance. Skilled at bridging technical and operational roles to improve efficiency, cut costs, and deliver engaging technical training.

CORE SKILLS

- Radiation Safety & Compliance (IAEA-certified)
- Robotics & IoT Development (Arduino, ESP32, ESP8266)
- Web Development (HTML, CSS, JS, GitHub)
- Cloud Systems (Google Workspace, Drive)
- Data Management & Reporting
- Team Leadership & Operations
- Tender Preparation & Client Liaison

CERTIFICATIONS

- Radiation Protection for Occupationally Exposed Workers - IAEA (2023)

- Full Stack Software Engineering – ALX 2022 - 2023
- Radiation Protection of Industrial Radiography - IAEA (2018)
- VEX Robotics - Aug 2021

CAREER TIMELINE

Mar 2022 - Present | Radiation Safety Officer & Digital Transformation Lead | RadTech East Africa Ltd
- Replaced flash-drive workflows with Google Workspace, enabling real-time collaboration.
- Built radtech.co.ke with AI chatbots and learning hub.
- Created central client/device licensing database, boosting compliance speed.
- Secured a 4-year tender with major industry client.

Feb 2021 - Feb 2022 | Coding & Robotics Trainer / Assistant Ops Director | TechKidz Africa & AfriBot
- Delivered STEM training to primary schools using Scratch, Arduino, ESP kits.
- Managed school outreach, lesson planning, and transport logistics.
- Led design of Swahili-translated Scratch and custom ESP32 motor-shield kit.

Jul 2021 - Sept 2021 | Technical Intern, Metrology Department | Kenya Bureau of Standards (KEBS)
- Rotated through SSDL, optics, force, sound, time, and electronics labs.
- Assisted in calibration and quality assurance processes.

EDUCATION

- B.Sc. Physics (Electronics Major) - Graduated Sept 2021
- Full-Stack Software Engineering (Front-End) - ALX Africa, 2023

TECH STACK

Arduino IDE | Git/GitHub | Scratch | HTML | CSS | JavaScript | Google Sheets | Google Drive for Desktop | ESP32 | ESP8266

PROJECT HIGHLIGHTS

- RadTech Digital Overhaul - Reduced reporting delays by 50% through cloud workflows.
- AfriBot IoT Kit - Developed custom training kit for robotics education in Swahili.
- Website & AI Chatbot - Built platform integrating client support and regulatory Q&A.