

Mwaura Nathan Waweru

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Summary

Result-oriented and proactive Mechanical Engineering student with a passion for robotics, programming, and web development. A dedicated team player and leader with a strong commitment to integrity and a proven ability to achieve results efficiently. Seeking to leverage skills in CAD, programming, and mechanical processes in a challenging role.

Education

Jomo Kenyatta University of Agriculture and Technology — Nairobi, Kenya *Bachelor of Science in Mechanical Engineering* Sept 2021 - Present (3rd Year of Study)

Rongai Boys High School — Rongai, Kenya *Kenya Certificate of Secondary Education* Jan 2013 - Dec 2017 *Grade Attained: B-*

Projects & Training

Cars4Mars Africa's Mars Rover Challenge *Lead in Rover Communications Using ROS2* April 2025 - Present

JKUAT SES Website Mentorship *Web Development, Frontend Web Development, Web Design* Oct 2023 - Dec 2023 *Skills: HTML5, CSS, JavaScript*

IoT Programming and Embedded Systems Training

Beginner Course on IoT and Cloud connectivity

April 2025 - April 2025

Experience

Kengen Upper Tana Station — Kiambere, Kenya *External Attachment* May 2024 - Aug 2024

Jomo Kenyatta University — Nairobi, Kenya *Student Attachment* May 2023 - June 2023 *Hands-on experience in: Foundry work (Casting), Carpentry and Woodwork, Welding and Fabrication, Lathe work and Milling, Overhauling and Assembly of Motor vehicle engines, Fitting processes.*

Capital Architects — Nairobi, Kenya *Retail Sales Associate* May 2021 - Sep 2023
Responsibilities: Customer dealings, Product enhancement, Sales review.

Mwerveu Interventionists – Nairobi, Kenya *Student Interventionist* March 2024 – Present

Skills

Computer Aided Drawing & Design: *Autodesk Inventor Professional, AutoCAD*

Computer Simulation:

Ansys Mechanical, Ansys Fluent, Ansys Forte

Programming Languages: *C, HTML5, C++, CSS, Java, JavaScript, Python, ROS2*

Applications: *Microsoft Office Suite (Word, Excel, PowerPoint, Access)*

Engineering: *ROS2 on Raspberry Pi, Python for Embedded Systems, Foundry, Welding, Fabrication, Lathe work, Engine Assembly*

Awards

- Iot Programming And Embedded Systems Training - 2025
- Science Congress Certificate – Regional Level - 2017

Personal Interests

Cycling, Playing Football, Formula One, Reading the Bible

References

1. Francis Mwaura Waweru – Architect, Capital Architects

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2. Mr. Mukira – Supervisor, Mwerevu Education

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