Stephen Thiong'o Henya

ELECTRICAL AND ELECTRONIC ENGINEER

Kamiti, Kahawa West | P.O. Box 65978-00607 | henyastephen@gmail.com | 0746367021

Professional Summary

Detail-oriented and analytically strong Electrical & Electronic Engineering undergraduate with deep expertise in mathematics, numerical methods, and technical problem-solving. Demonstrated experience in analyzing complex systems, creating structured problem breakdowns, and building simulations in MATLAB and Simulink. I am also passionate about education, AI development, and building robust rubric and grading systems that support accurate and fair mathematical assessment. Adept at communicating complex mathematical ideas clearly and logically.

Experience

University of Nairobi

Internal Attachment | June 2024 – August 2024

- Designed and built a regulated linear power supply.
- Conducted circuit analysis, simulation and troubleshooting.

Internal Attachment | June 2023 – August 2023

- Designed and built a housing electrical system using AutoCAD.
- Singled out the optimum circuitry befitting chosen design.

Power Systems Applications | September 2024 – February 2025

- Designed a 250MW Gas Turbine Power Plant using AutoCAD.
- Simulated and analyzed the plant using MATLAB and Simulink.

Independent Researcher & Tutor

Freelance – Remote | Ongoing

- Created comprehensive explanations and problem breakdowns across topics such as waveguide theory, complex numbers, vector calculus, and electromagnetic analysis.
- Designed math rubrics for peers and juniors, focusing on clarity, logic progression, and correctness.
- Assisted students and AI-based tools with concept reinforcement and accurate grading schema.

Education

University of Nairobi, Sep 2021 – Sep 2026

P.O. Box 30197-00100, University Way

- Bachelor of Science in Electrical and Electronic Engineering
- Relevant Coursework: Advanced Mathematics, Numerical Methods, Signal Processing, Simulation & Control, Transmission Line Theory

Kagumo High School, Jan 2017 – April 2021

P.O. Box 69-10102, Kiganjo

- Mean grade of A- in KCSE.
- A's in Mathematics, Kiswahili, Physics, Chemistry, Geography and Agriculture.

Skills & abilities

Skills

- Mathematical Modeling & Problem Solving
- Numerical Methods & Linear Algebra
- Differential Equations (ODEs & PDEs)
- Logic Design & Rubric Development
- Programming: Python, C++
- Simulation and Analysis: MATLAB and Simulink.
- Curriculum Design Support (STEM)
- LaTeX, AutoCAD MEP (Electrical)
- Research & Technical Writing
- AI Dataset Curation & Annotation (Theoretical understanding)

Abilities

- Teamwork and Collaboration.
- Communication and Interpersonal skills.
- Strong Work Ethic and Eagerness to Learn.
- Analytical and Problem-Solving Skills.

References

Miss Cindy Njeri Henya
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