Nduvho Edward **Ramashia**

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Github | LinkedIn

Professional Summary

Results-driven STEM enthusiast with a strong foundation in electrical engineering, information engineering, and programming. Committed to continuous learning and innovation, I bring a blend of technical expertise and collaborative problem-solving. Seeking to contribute to dynamic projects in the field with a focus on emerging technologies and a proven track record in successful software development projects.

Technical Skills

- **Programming Languages:** C++, Python, Matlab, AVR Assembly, Javascript, "HTML/CSS".
- **Software Tools:** Matlab, LTspice, Linux (various distros and CLI operations), LOGO Soft Comfort, VS Code, Autodesk Eagle and Similar CAD Software, Git Version Control, Microsoft Excel, Power BI.
- **Hardware Platforms:** Atmel AVR, ESP32, and STM32 Micro-controller families, LOGO PLC.

Experience

Assistant to the Services Manager, IMT Probe Kuruman Auto   **December 2024 – January 2025**
- Analyzed services data to identify trends and areas for improvement
- Streamlined data capture and analysis by developing an error-resistant, user-friendly job card entry form
- Evaluated departmental utilization and performance metrics
- Contributed to the development of cost-saving strategies using KPIs such as MTTR, MTBF and others

Junior Electrical Engineer (Part-time), iMining (Pty) Ltd   **February 2024 – May 2024**
- Measurement systems design and development
- PCB designs
- Firmware development
- Electronics equipment testing & assembly
- General engineering lab administration

Student Electrical Engineer, iMining (Pty) Ltd   **December 2023 - January 2024**
- Assisting engineers with Schematic & PCB designs
- Contributed in firmware development
- Electronics equipment testing & assembly
- General engineering lab administration
- Measurement systems design and development

Undergraduate Research Assistant, Wits of School of Electrical and Information Engineering   **June - July 2023**
- Supported hands-on projects on controlled LED lighting for mosquito breeding
- Conducted experiments and collected data with attention to detail

- Ensured strict adherence to lab safety protocols
- Assisted in maintenance and repair of lab equipment

Volunteer, Data for Municipal Infrastructure Assets   **June 2021 – August 2021**
- Retrieved and processed data for road–river crossing assessments
- Evaluated infrastructure and prioritized repairs to optimize maintenance planning

Teaching Assistant, University of the Witwatersrand   **Feb 2021 – June 2021**
- Assisted groups and individuals in understanding Microprocessor concepts
- Supported students with software setup and debugging Assembly code

Lecturer Assistant, Wits – School of Electrical and Information Eng.   **Nov 2020 - Feb 2021**
- Tested and analyzed new microcontrollers for future academic use
- Implemented and validated upcoming lab exercises on proposed hardware
- Reviewed lab instructions for accuracy, feasibility, and time efficiency

Education

Bsc(Hon) in Electrical and Information Engineering,   **4th Year**   **Expected Grad. Date: 2025**
University of the Witwatersrand, Johannesburg

Achievements and Awards

- Triumphs in High-Performance Computing (HPC) and Data Science Competitions:
  - ✓ Secured a coveted spot on the CHPC team for ISC22-SCC in 2022.
  - ✓ Distinguished with a stellar 2nd place out of 4 finalists in the CHPC-SCC competition in 2021.
  - ✓ Showcased exceptional skills, clinching an impressive 2nd place out of 9 participants in the spirited DIRISA DATATHON of 2020.

Certifications

The Cybersecurity Threat Landscape, LinkedIn Learning, 2023

Leadership and Extracurricular Activities

- Music Enthusiast:
  - ➢ Proficient in playing electric piano and bass guitar.
  - ➢ Actively involved in musical collaborations.
- Gaming Enthusiast:
  - ➢ Engaged in gaming communities and online tournaments.
  - ➢ Demonstrated strategic thinking and teamwork through gaming experiences.

Professional Memberships

- Student Member, South African Institute of Electrical Engineers (SAIEE)
- Subscriber, Creamer Media (Engineering News, Mining Weekly)