



Siyamthanda Makani

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Profile

Computer Systems Engineering graduate with a strong foundation in embedded systems, robotics, and automation. Hands-on experience with microcontrollers, real-time programming, and AI-driven solutions. Passionate about building innovative tech systems and eager to contribute to cutting-edge projects in IoT, robotics, and data-driven automation.

 For more information and project highlights, please visit my portfolio: makani-portfolio.vercel.app 

Education

2021 – 2024 pretoria, South Africa	Diploma Computer Systems Engineering Tshwane University of Technology
February 2025 – present pretoria, South Africa	Advanced Diploma in Computer Systems Engineering Tshwane University of Technology Part-Time

Skills

- Embedded Systems: C/C++, Microcontrollers, Real-time Programming
- Programming: C/C++, Python, Object-Oriented Design
- Problem-Solving & Analysis
- Industrial Automation: PLC Programming, Digital Process Control
- Digital Electronics: Circuit Design, FPGA Basics, Logic Gates, PCB Design
- Data Science(AI)
- Networking: TCP/IP, LAN/WAN Configuration
- Communication
- Project Design & Management
- Databases: SQL, Database Design
- Operating Systems: Process Scheduling, Memory Management
- Team Collaboration

Professional Experience

Tshwane University of Technology

March 2024 – June 2024 pretoria, South Africa	SASO Tutor I am a programming and Digital electronics Tutor.
January 2023 – December 2023 pretoria, South Africa	Residence Mentor
August 2024 – February 2025 pretoria, South Africa	4IR Robotics Intern

Certificates

- Tshwane University of Technology Student Mentor
- Diploma In Computer Systems Engineering

Languages

English

Isixhosa

Zulu

References

Provided Upon request