# Altus Rossouw

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🔗 GitHub: @AltusRossouw | LinkedIn: Altus Rossouw

🌍 Nationality: South African & Hungarian

## Professional Summary

Embedded Systems Developer & IoT Specialist with experience in firmware, microcontrollers, and full-stack development. Skilled in building IoT applications from the ground up, including front-end, back-end, and MQTT/cloud integrations. Strong foundation in Python, C++, JavaScript, Swift, and SQL. Passionate about combining software engineering with hardware, robotics, and connected systems.  
  
Unique professional background blending technology, mechanics, and sports: experienced bicycle mechanic and tour guide across Europe & South Africa, with proven leadership, problem-solving, and hands-on technical expertise. Fluent in English & Afrikaans, with international experience across Switzerland, Germany, and South Africa.

## Education

* Bachelor of Science in Information Technology (Software Engineering)

Eduvos, Tygervalley – Sept 2024 – Present

* AS Level – Mathematics, Physics, English, Afrikaans

Clift College, Paarl – Aug 2021 – Dec 2022

* Paarl Boys High School

Jan 2018 – Aug 2021

## Experience

* Azoteq – Software Engineer Intern

Paarl, South Africa | May 2025 – Present

• Firmware development for custom ICs and microcontrollers.

• Built IoT apps with front-end and back-end integration.

• Full-stack development including cloud dashboards and MQTT.

* Freelance – Bicycle Mechanic

South Africa | Sept 2024 – Present

• Professional mechanic at major events including Cape Epic & Wines2Whales.

• Responsible for high-performance bike assembly, repair, and optimization.

* Freelance – Bicycle Tour Guide

Switzerland & South Africa | Jun 2023 – Present

• Guided international clients on mountain & gravel bike tours.

• Managed logistics, safety, and customer experience.

* Scott Sports – Professional Development Bicycle Mechanic

Fribourg, Switzerland | Jun 2023 – Sept 2024

• Assembly, prototyping, and maintenance of high-end bicycles.

• Worked at international races and product launch events.

* Scott Sports – Quality Management Team Member

Fribourg, Switzerland | Jan 2023 – Jun 2023

• Contributed to workshop design & database integration projects.

* Scott Sports – Mechanic & Guide

Munich, Germany / Paarl, South Africa | 2022 – 2023

• Delivered technical support at international dealer events.

• Guided large groups and managed guest experiences.

* Mrace Coaching Systems – Mountain Bike Coach

Paarl, South Africa | Jan 2022 – Oct 2022

• Taught riding skills, fitness, and nutrition strategies to cyclists of all levels.

* Clift College – Computer Network Manager

Paarl, South Africa | Jan 2022 – Dec 2022

• Designed and maintained wired/wireless networks with 150+ clients.

• Configured servers and provided IT support.

## Skills

Programming & Tech: Python, C++, JavaScript, Swift, SQL, IoT, MQTT, ESP32/ESP8266, firmware, robotics, Grafana, CAD  
Networking & Systems: Computer networks, server setup, cloud dashboards  
Creative & Media: Cinematography, photography, FPV drones, video editing  
Cycling Expertise: Professional mechanic, bike fitting, guiding, coaching  
Languages: English (fluent), Afrikaans (fluent)  
Licenses: SA Code 14 Driver’s License | EU Drone License A1/A3