Aaron Ross Isserow

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in **LinkedIn: Aaron Isserow**   ⌂ **GitHub: AaronIsserow**

Education

University of Cape Town   2022 – Present
BSc in Mechatronics Engineering (Final Year)
- Dean's Merit List (Third Year)

Herzlia High School   Matriculated in 2020
- 87% average

Cape Peninsula University of Technology   Practical Training Course
- CNC, Welding, and Pneumatics

Work Experience

Software Engineer Intern, iiDENTIFii   January 2025 – February 2025
- Gained experience in web development and APIs.
- Worked on software engineering tasks and learned new technologies.

Founder, CaliBlu Clothing Company   June 2021 - December 2024
- Started and managed a clothing company, gaining entrepreneurial experience.

Volunteering and Gap Year Experience

Junior Medic, Ambulance Service
- Volunteered for two months as a junior medic, gaining hands-on experience in emergency medical situations.
- Assisted paramedics with patient care, first aid, and medical support in real-world scenarios.

Volunteer, Housing and Sustainable Gardening Projects
- Contributed to community housing initiatives and sustainable gardening projects.
- Developed teamwork and adaptability while engaging in diverse community service roles.

Projects

Micromouse Autonomous Robot
- Designed and built a sensing subsystem for a Micromouse robot using KiCad.
- Programmed the robot to navigate through a maze using line and wall detection algorithms in MATLAB.
- Demonstrated skills in embedded systems, sensor integration, and algorithm development.

Developer, Penguin Patrol Alert System (UCT Project)
- Built a full-stack web application to detect and deter predators at a remote penguin colony.
- Developed the UI and backend, integrating real-time video streaming, Raspberry Pi communication, and a ChatGPT-powered chatbot.
- Ensured secure login, live detection alerts, and database logging of events.

Skills

- **Programming Languages:** C, C++, Python, Java, C#
- **Tools & Frameworks:** MATLAB, KiCad, APIs, Web Development, ASP.NET Core
- **Other:** Numerical Integration, Control Systems, CNC, Welding, Pneumatics

Achievements

- Represented South Africa in U20 Indoor Football World Cup in Colombia
- Full Colours for Academics, Waterpolo and Football at School