Cobus Uys

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Location: Bloemfontein, South Africa

Work Experience

Power Super Capacitor

Automation Engineer
Bloemfontein, South Africa
November 2022 – Present

- **Designed and implemented** advanced mechanical and control systems for new production line machinery, increasing factory efficiency by 25%.
- **Developed** a controller for automatic cell discharging with cell-level control and energy reclamation, significantly reducing energy waste.
- **Led** the design and programming of nearly all factory production line machines, ensuring exceptional reliability and less than 2% downtime.
- **Applied** expertise in Embedded C++ programming, CAD design (Fusion 360), and PCB design (Altium Designer) to enhance production processes.
- **Expanded** skill set to include Git, IoT, Python, HMI design, and CNC operation, contributing to the continuous improvement of production systems.

Jim Fouche Hostel

Hostel Supervisor (Part-Time)
Bloemfontein, South Africa
May 2022 – October 2023

- **Guided** learners in their studies, enforced discipline, and managed administrative tasks, fostering a positive learning environment.
- **Engineered** an automated system for tracking disciplinary records and learner data, using [Technology Used] which improved operational efficiency by 30%.
- **Developed** strong interpersonal and leadership skills through daily interactions with learners and staff.

Leeuwenkuil Family Vineyards

Harvest Helper
Stellenbosch, South Africa
January 2022 – April 2022

- **Assisted** in processing grape harvests for wine production, ensuring timely and efficient processing during peak season.
- **Managed** various responsibilities, including operating machinery and supervising temporary workers, contributing to the smooth operation of the vineyard.

Education

University of South Africa (UNISA)

BSc in Computer Science
Bloemfontein, South Africa
First Year - Expected Graduation: 2026

- **Relevant Coursework:** Programming, Linear Algebra, Calculus, Computer Architecture
- **Achievements:** Consistently high marks, aligning academic knowledge with professional experience.

Skills & Interests

Skills:

- **Programming Languages:** C++, Python
- **Tools & Technologies:** Git, Embedded Programming, IoT, CAD Design (Fusion 360), PCB Design (Altium Designer), HMI Design, CNC Operation
- **Soft Skills:** Leadership, Problem-Solving, Rapid Learning, Interpersonal Communication, Graphic Design

Interests:

- **Programming:** Continuously improving skills through personal projects and online courses.
- **Guitar:** Playing and composing music, which enhances creativity and discipline.
- **Cooking:** Experimenting with recipes, which fosters patience and attention to detail.

Achievements

- **Increased Factory Efficiency:** Boosted production efficiency by 25% through the implementation of advanced automation systems.
- **Reduced Downtime:** Minimized machine downtime to less than 1% by designing and programming reliable production line machinery.
- **Improved Operational Efficiency:** Enhanced hostel operations by 30% through the development of an automated tracking system for disciplinary records.