Sameer Shaboodien

Tertiary Education

Stellenbosch University (2021-present)
> Electrical and electronic engineering
> Received the Dell Young Leaders Scholarship
> Golden Key member following a top 15% faculty placement.
> Awarded Dell Young Leader bursary.

High School

Bishops Diocesan College (2016-2020).
> Full academic colors (sustained 85% average).
> 11th in the national Allan Gray Entrepreneurship Challenge (2018).
> Top 10 in the Western province for grade 12 economics
> 90% average in grade 12.

Public Service

> Vice-Chairman of the community service society at Bishops, leading and organizing large public and intercommunity events alongside my team.
> Spearheaded the "24-hour Cyclathon" at the V&A Waterfront, successfully raising over R250,000
> Completed over 150 hours of community service.
> Recipient of the Gold President's award.

Other Experience

> Bishops' equality committees. Actively participated in organizing speeches, negotiating with management, and encouraging students to voice their concerns regarding offenses.
> 1 year of university tutoring through various organizations
> 1 year with Genius Premium Tuition, a comprehensive tutoring company, collaborating with a large team to evaluate and manage the objectives and overall well-being of tutees.

Skills

> Languages: English, Afrikaans, French
> Skilled in C, Java, and Python.
> Equity trading, Achieved a 25% profit in my best year.
> Courses and work in Adobe: Illustrator, Photoshop, premier pro, audition.
> Awarded half colors for debating.

Sport

> Western Province in judo and indoor cricket.
> First-team high school hockey
> A-team club and school soccer

Engineering Experience

29 June – 10 July 2023: Octoco
Role: Electrical Engineer - Intern

- **Achievement:** Awarded a performance bonus for outstanding completion of a project involving wireless control of over 200 tenant meters nationwide.
- **Decrypted Metering Protocol:** Deciphered a discontinued electricity meter's byte protocol, leading to custom communication software development and training peers.
- **Skills Developed:** Mastered self-learning, problem-solving, and research due to the absence of current experts on the meter in South Africa. Gained expertise in serial communication monitoring, decryption, Python, and protocol understanding.

11 – 13 July 2023: Octoco
Role: Hardware Analyst – Contract Work

- **Hardware Debugging:** Resolved hardware issues on over 100 circuit boards of a major international agricultural product.
- **Root Cause Analysis & Future-Proofing:** Identified and addressed recurring board issues, enhancing reliability and streamlining future repairs.

11 – 15 September 2023: Octoco
Role: Software Developer and Junior Electrical Engineer - Contract Work

- **Wireless Meter Interface:** Improved software in Arduino IDE for wireless communication with 200+ electricity meters via GSM modems, reducing errors.
- **Hardware Error Analysis:** Tackled line and communication delays.
- **Innovative Remote Control:** Established a global wireless interface for meters using Postman and a custom protocol.

Additional links

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