SAMEER SHABOODIEN

Electrical Engineer

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in sameer-shaboodien

EXPERIENCE

Electrical Engineering Intern

Octoco

📋 29 Jun 2023 - 10 Jul 2023

- Decrypted Metering Protocol: Deciphered and documented a discontinued electricity meter's protocol, creating custom interfacing software for external hardware integration.
- Achievement: Awarded a performance bonus for outstanding project completion.
- Skills Developed: Advanced protocol decoding, problem-solving, initiative.

Hardware Analyst (Contract)

Octoco

📋 11 Jul 2023 - 14 Jul 2023

- Hardware Debugging: Resolved maintenance issues on over 100 PCBs for an international agricultural project, identifying recurring design flaws.
- Skills Developed: Hardware debugging, design flaw identification.

Junior Software Developer and Electrical Engineer (Contract) Octoco

☐ 11 Sep - 15 Sep 2023

- Wireless Meter Interface: Improved C software for interfacing with over 200 GSM modems, fixing bugs and refactoring code.
- Hardware Error Analysis: Resolved interference issues causing random bit streams in communications.
- Skills Developed: Software development, wireless communication, systematic interference identification.

Radio Frequency Engineering Intern Lantern Engineering

📋 23 Nov 2022 - 7 Feb 2023

- **Unit Testing:** Used software tools to achieve full coverage over a large radio project.
- IoT Integration and Debugging: Integrated a Raspberry Pi with an array
 of IoT MATTER devices, identifying and fixing an EMI protection flaw.
- Environment Setup: Developed software for UART and I2C communication on an older IDE and chipset.
- Skills Developed: Unit testing, low-level software development, IoT integration, research.

Part-time Tutor and Teaching Assistant Stellenbosch University

📋 2021 - Present

- Tutored high school and university students in mathematics and engineering subjects.
- Assisted in tutorial sessions at Stellenbosch University.
- Skills Developed: Teamwork, professional conduct, process evaluation, communication, time management.

EDUCATION

Bachelor's in Electrical and Electronic Engineering

Stellenbosch University

📋 2021 - Present

High School Diploma
Bishops Diocesan College

2016 - 2020

SKILLS

- Advanced Programming (C, Java, Python)
- Adobe Creative Suite
- Investment experience
- Foundational Certificate in Project Management IPMA SA

ACHIEVEMENTS

Academic

- Received the Dell Young Leaders Scholarship
- Golden Key member (top 15% faculty)
- Full academic honors at Bishops and 90% matric average
- 11th nationally in Allan Gray Entrepreneurship challenge (2018)
- Top 10 in province for matric economics

Cultural

- · Half Debating Colors at Bishops
- Gold President's award and 200 hours of community service

Sporting

- Western Province in judo and indoor cricket
- · A-team high school hockey
- · A-team club and school soccer

LANGUAGES

English	••••
Afrikaans	$\bullet \bullet \bullet \circ \circ$
French	••••