Teveshan Valaitham

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Code B Driver's License

PROFILE

A BSc (Honours) graduate aiming to secure a challenging role as a software developer where I can utilize my strong technical background in electrical engineering and my passion for programming to contribute to the development of innovative software solutions. Despite my lack of professional experience, I am eager to apply my knowledge and skills to make a meaningful impact in the industry.

EDUCATION

University of Kwa-Zulu Natal | Durban, South Africa ***2017 – 2022***
Bachelor of Science (Honours) Electrical Engineering.
Grade: 60%.
Key Modules: Electrical Principles, Computer Methods, Engineering Mathematics, Embedded Systems, and Digital Systems.
Dissertation: 'Design and Simulation of a Micro-turbine power generation system'.

Mountview Secondary School | Verulam, South Africa ***2012 – 2016***
Bachelor's Pass (4 A's) *2016*
Subjects: Mathematics (86%), Information Technology (92%), Accounting (92%), English (77%), Life Orientation (87%), Physical Sciences (71%), and Afrikaans (37%).

ACHIEVEMENTS

- 2x winner of the Thebe Foundation Scholarship Fund (2020 and 2021).
- Shantik Foundation Skills Development Graduate (Electrical) - 2023.
- Mountview Secondary head prefect and class RCL.
- "A" aggregate achievement in Matric.

SKILLS

Languages: English (Native), Zulu (Level 2), Afrikaans (Level 1), and Tamil (Level 2).
Microsoft Office: Proficient in Word, PowerPoint, Excel, and Outlook.
Software Development: Proficient in C, C#, Java, Python, Assembly, SQL, and MATLAB. Additionally, experienced in object-oriented programming (OOP), and data structures and algorithms. Currently studying courses in JavaScript, and HTML & CSS.
Other: Microcontroller programming, embedded systems, lightroom, Visual Studio Code, NetBeans, PyCharm, Atmel Studio, MATLAB/Simulink, MS SQL Studio, and technical drawing in AutoCAD.

SOFTWARE PROJECTS

- Pharmacy, Car Rental, and Music store projects built in NetBeans using Java and a database. Utilised OOP, SQL, and a graphical user interface to complete various tasks such as storing/modifying/deleting users and staff members, creating receipts, generating pie charts and graphs, and using accounting equations to determine if the business is running a profit or a loss.
- Created a multi-meter that is able to measure current, voltage, resistance, and power by creating an embedded system using an Arduino microcontroller coded with C++.
- Ping-pong game, speedometer, live number of students currently in a classroom, light pattern, and an intrusion alert system was made using Assembly and a microcontroller (ATmega-32).

- Designed and developed a micro-turbine power system capable of powering a small office using MATLAB/Simulink in either stand-alone mode or hybrid (in tandem with grid power to save on energy costs).

Volunteer and Community Upliftment Work

- Annual local Diwali hamper drive.
- Annual sports day, Jhugroo primary school.
- Social upliftment, Walk for Values.
- Social upliftment, Teenagers against Drugs and Abuse.
- Social upliftment, Alcoholics Anonymous.
- Mountview Secondary School Poverty Alleviation Club

Hello,

I hope this message finds you well.

This is to explain the gap between the last module completed in 2021 (according to my transcript) and now. I have completed all of my modules required by my degree; however, my degree requires 14 weeks of vacation work. Due to the pandemic, it was difficult finding vacation work and as a result, I only completed it late last year (2022). Therefore, my vacation work will be processed this year (2023). I will be graduating this year and will receive “Degree Complete” status around June/July 2023. As of now I am done with my degree and looking for employment.

Thank you for reading this.

Warm regards,
Teveshan Valaitham