Tahseen Intesar

Electrical / Computer Engineering Student

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587-575-4299 Calgary, AB, Canada

Education

University of Calgary *Expected April 2023*

BSc. in Electrical Engineering, Minor in Computer Engineering

- **Cumulative GPA***:* 3.545/4.0
- **Relevant Coursework**: Data Structures and Algorithms, Principles of Software Development, Operating Systems, Digital Systems Design, Digital Electronics Circuits, Communication Systems and Networks, Embedded Systems, Engineering Ethics

Technical Skills

Languages	C, C++, Java, JavaScript, Python, MATLAB, VHDL, MIPS Assembly
Frameworks and Tools	Azure, MongoDB, Node.js, React.js, SQL Server
Embedded Systems	Arduino, Raspberry Pi, PIC
Electronic Tools	Oscilloscope, Multimeter, Function Generator, Soldering
Miscellaneous	Agile Methodology (Scrum), Unix/Linux, Git

Experience

Petro-Techna International Ltd. – I&C Co-op *Aug. 2021 – Present*

- Reviewing engineering drawings and documentation for multiple projects in North Africa and the Middle East.

EPC Technical Services – Volunteer *Jun. 2020 – Aug. 2020*

- Reviewed Piping and Instrument Diagrams (P&ID) and Instrument Loop Diagrams for a Gas-Oil Separation Plant under guidance of a professional engineer.
- Created Instrument Index, I/O List, and Cable Schedule tables in Excel.

Schulich Ignite – Student Mentor *Sept. 2019 – Dec. 2019*

- Managed a cohort of 5 students in the fundamentals of computer programming**.**
- Encouraged students to develop solutions using object oriented and iterative practices.
- Collaborated with senior mentors and provided feedback to improve the learning environment.

Projects

Supply Chain Management System *Mar. 2021 – Apr. 2021*

- Developed an inventory management system in Java that facilitates the ordering of parts from a MySQL database at 30% efficiency.
- Demonstrated proper documentation of code, and constructed UML class diagrams.
- Created unit tests for each Java class using JUnit and JDBC frameworks.

Handheld Gaming Device *Jan. 2021 – Apr. 2021*

- Built a handheld gaming device that runs simple games using an Arduino microcontroller.
- Tested display graphics and related peripherals using Arduino library functions.
- Demonstrated proper documentation and written communication of project specifications.

Audio Device *Jan. 2020 – Apr. 2020*

- Developed a proof of concept for a machine that created basic beat patterns.
- Constructed 3D CAD model as a prototype, and electrical load list for the infrastructure.
- Designed filter and LED matrix circuits for the layout.