Tahseen Intesar

tahseen.intesar@gmail.com
+1 587 575 4299
Calgary, AB, Canada

Education

University of Calgary *Expected April 2022*

BSc. in Electrical Engineering, Minor in Computer Engineering

· **GPA**: 3.858/4.0 in the past 12-month period
· **Relevant Coursework**: Data Structures and Algorithms, Principles of Software Development, Control Systems, Digital Systems Design, Digital Electronics Circuits, Communication Systems and Networks, Embedded Systems, Engineering Ethics

Activities

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

· Assisted a cohort of 5 students in the fundamentals of **computer programming**
· Encouraged students to develop solutions to various problems, combining object oriented and iterative processes
· Developed a rapport with other mentors and provided feedback to ensure the learning environment promoted

Academic Projects

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

· Developed an Object-Oriented inventory management system in **Java** that facilitates the ordering of parts from a **MySQL** database
· Demonstrated proper documentation of code
· Constructed a **UML** class diagram outlining the relationship between each Java class
· Created tests for each Java class using **JUnit 4** and **JDBC** as the framework

Handheld Gaming Device *Jan. 2021 – April 2021*

· Used an **Arduino** microcontroller to create a handheld gaming device that can run simple games
· Coded and tested the graphics and 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, focusing on a simple user interface
· Designed 3D CAD model as a prototype
· Designed filter and LED matrix circuits for the layout
· Prepared electrical **load list** for the project

Technical Skills

Programming	C, C++, Java, Python, JavaScript, MATLAB, VHDL
Embedded Systems	Arduino, Raspberry Pi, PIC
Circuit Design	Quartus, Modelsim, LTSpice, OrCAD PCB
Electronic Tools	Oscilloscope, Multimeter, Function Generator, Soldering
Miscellaneous	Autodesk Fusion 360, Microsoft Excel