Tahseen Intesar

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Calgary, AB, Canada

Education

University of Calgary

Expected April 2022

BSc. in Electrical Engineering, Minor in Computer Engineering

 <u>Relevant Coursework</u>: 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

Handheld Gaming Device

Jan. 2021 - Present

- Used an **Arduino** microcontroller to create a handheld gaming device that can run simple games
- · Coded the games using an open source library (Arduboy)
- · Tested 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

Digital Dashboard

Sept. 2018 - Dec. 2018

- Created a simulation of a car dashboard that responded to simulated vehicle data
- · Read Excel files containing vehicle data using file handling functions in Processing 3
- Manipulated dashboard graphics to respond to vehicle data

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