

Education

University of Calgary

BSc. in Electrical Engineering, Minor in Computer Engineering

Expected April 2022

- **Cumulative GPA:** 3.541/4.0
- **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

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.

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.
- Demonstrated proper documentation of code.
- Constructed a UML class diagram outlining the relationship between each Java class.
- Created unit tests for each Java class using **JUnit 4** and the **JDBC** frameworks.

Handheld Gaming Device

Jan. 2021 – Apr. 2021

- 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 display graphics and peripherals using Arduino library functions.
- Demonstrated proper documentation and written communication of project specifications.

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** (subset of Java for visual representation).
- Manipulated dashboard graphics to respond to tabulated data.

Technical Skills

Languages

C, C++, Java, JavaScript, Python, MATLAB, MIPS Assembly

Frameworks

React.js, Node.js, Express.js, JUnit4

Technologies

Git, MySQL, MongoDB, AWS

Hardware

Soldering, Oscilloscope, Function Generator, Microcontrollers, VHDL