# Tahseen Intesar

**Electrical / Computer Engineering Student**

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## Education

**University of Calgary** *Sept. 2018 – Apr. 2022*

BSc. in Electrical Engineering, Minor in Computer Engineering

- **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

## Technical Skills

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

## Experience

**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 using object oriented and iterative practices.
- Cooperated with other 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.
- Demonstrated proper documentation of code, and constructed **UML** class diagrams.
- 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 build a handheld gaming device that runs simple games.
- Tested display 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.
- Designed 3D **CAD** model as a prototype, and electrical **load list** for the infrastructure.
- Designed filter and LED matrix circuits for the layout.

**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 tabulated data.