

Umar Asif

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Relevant Skills

Languages C/C++, Java, Java Swing
Technologies/Tools HTML/CSS, Git, Processing

Education

University of Waterloo

Waterloo, Ontario

B.ASC IN COMPUTER ENGINEERING (HONORS CO-OP)

September 2019 - April 2024 (Expected)

Relevant Courses: Fundamentals of Programming, Digital Circuits and Systems, Linear Circuits, Communication in the Engineering Profession, Engineering Profession and Practice.

Projects

Pokemon Battle Simulator (Java)

A GUI-BASED TWO PLAYER GAME ON **JAVA**

December 2019

- Developed a two player game using **Java**.
- Designed and created a responsive GUI using **Java Swing**.
- Uses **File Management** to read character data.
- Realistic Pokemon Battle Simulation.
- Flexible program able to add new characters by editing text file.

Pokemon Battle Simulator (C++)

A TEXT-BASED TWO PLAYER GAME ON **C++**

December 2019

- Developed a text-based two player game using **C++**.
- Realistic and accurate Pokemon Battle Simulator.
- Character data read from text files.

Autonomous Vehicle

DESIGNED AN SMALL-SCALED AUTONOMOUS VEHICLE

December 2018 - March 2019

- **Organized and Led** team of 6 members to **UofT Engineering Idol Competition**.
- Created an autonomous vehicle able to maneuver around a track.
- Oversaw design process as **Engineering Club president**.

PDLC film heating solution

PDLC FILM USED AS AN SMART INSULATION SOLUTION

December 2017 - March 2018

- **Organized and Led** team of 6 members to **UofT Engineering Idol Competition**.
- Created a heating solution using Polymer Dispersed Liquid Crystals(PDLC) film.
- **Designed and presented** a prototype to a panel of judges.
- Implemented a Wifi-switch and potentiometer with PDLC Film to create a smart and effective heating solution.

Related Experience

MCI Engineering Club

Etobicoke, Canada

PRESIDENT

September 2017 - June 2019

- Organized engineering workshops at school as president.
- Managed a budget to create **engineering prototypes** run workshops for **over 40 students**.
- Led group of 6 students to compete in the **UofT Engineering Idol Competition** involving **over 20 schools**.

Pizza Pizza

Toronto, Canada

COOK

Summer 2019

- Worked in a **teamwork based environment** to ensure product quality.
- Followed **safety and health standards** to preserve customer safety.
- Operated at **fast-paced** locations such as the CNE and BMO field.
- Completed tasks by **prioritizing** by urgency in a fast paced work environment.

Wrestling

Etobicoke, Canada

ATHLETE

September 2017 - March 2019

- Developed a **work ethic**, demonstrated by achieving outstanding grades whilst **attending all daily practice**.
- **Competed** in 51kg weight-division at various tournaments. Notable results: 2nd in Division, 5th in City.
- Demonstrated **leadership and organization** as senior member of team.