

## HIGHLIGHTS OF QUALIFICATIONS

---

- Currently enrolled in level 4 of the 4-year Mechanical Engineering co-op program
- Capable of multi-tasking to meet deadlines in a fast paced work environment
- Comfortable developing creative mechanical solutions and presenting them to team members
- Able to work both autonomously and as part of a highly cohesive team to meet collective goals

## EDUCATION

---

**Bachelor of Engineering, Mechanical Engineering**  
McMaster University, Hamilton ON

**Class of 2019**

- Achieved a cumulative GPA of 3.7/4.0 across all completed semesters
- Recipient of the Dalvi Family Scholarship (\$7,500) for proven leadership, a commitment to volunteerism, and an admission average of 97%

### Relevant Courses

Mechanical Engineering Measurements  
Engineering Economics  
Electrical Circuits & Power

Thermodynamics  
Statics & Mechanics of Materials  
Design Communication

## EXPERIENCE

---

**Mechanical Design Engineer (Co-op Student)**  
Evertz Microsystems Ltd., Burlington ON

**2016-2017**

- Completed a total co-op work term of 8 months during the summers of 2016 and 2017
- Met all project deadlines when using Solid Edge to research, plan, and design electro-mechanical enclosures for projects exceeding \$500K in budget
- Showcased adaptability and initiative during last minute design changes by other departments
- Interpreted more than 50 design drawings to solve manufacturing process problems and estimate project costs

**Venture Camp Instructor**  
McMaster University, Hamilton ON

**Summer 2015**

- Practiced strong interpersonal and leadership skills while having to adapt STEM camp curriculum to children with varying accommodation needs
- Exercised patience and compassion as the mediator for conflict resolution between campers
- Adhered to safety procedures set out by McMaster University for working with lab equipment, resulting in no injuries or issues during the activities

## SKILLS

---

### Laboratory:

WHMIS Certified  
Standard First Aid  
Machine Shop trained  
Radiation Safety trained

Milling, Lathe  
Drill press  
3D printing  
Soldering

### Software:

SolidWorks  
Autodesk Inventor  
MATLAB  
AutoCAD

Python  
Java  
C++

## PROJECTS

---

### Autonomous Vehicle Design

**Grade Received: A**

- Collaborated in a team of 4 to design and construct a plant floor self-driving vehicle aimed at decreasing the amount of manual labour required to deliver materials on an assembly line
- Improved SolidWorks and CNC machining skills throughout the design and construction processes

### Master Key App & Device

**Grade Received: A**

- Created a voice-to-action app and device with Ruby, JavaScript, HTML5, and CSS that allows communication between a mobile app and a device installed over door knobs
- Demonstrated attention to detail throughout the data modelling, GD&T, coding, and design phase of the app and device's development
- Asked by the Dean of Engineering to enter the 'Apps that Matter' Competition sponsored by Microsoft in Victoria, B.C.
- Placed in 3<sup>rd</sup> place provincially and 6<sup>th</sup> place nationally

## EXTRACURRICULAR ACTIVITIES

---

### McMaster Solar Car Project

**2017 - Present**

McMaster University, Hamilton ON

- Utilizes precision and accuracy in the calculation of measurements needed for the design and manufacturing (CAD/CAM) of Gen VII's carbon monocoque chassis
- Guarantees design efficiency by communicating and troubleshooting issues in Unigraphics

### FIRST Robotics Mentor

**2016 - Present**

St. Mary's High School, Hamilton ON

- Guided a team of 10 secondary school students in their use of AutoCAD and programming languages (Java, C++, Python) to produce a competitive robot