

MUHAMMAD ALI

-  905-525-9140
-  alimuh@mcmaster.ca
-  [Linkedin.com/in/alimuhammad](https://www.linkedin.com/in/alimuhammad)
-  [GitHub.com/alimuhammad](https://github.com/alimuhammad)

SKILLS

Electrical Tools:

- Oscilloscope
- Soldering
- Power Systems
- Signal Processing

Software/Hardware:

- MATLAB
- C/C+
- Python
- AutoCAD
- Java
- Pspice

PROJECTS

CD-ROM Gear-Train System 2018

- Designed a CD-ROM Gear-Train by utilizing 3D printing technology
- Verified and simulated the Gear-Train's performance using 2D and 3D **solid-modelling software**

Sumobot Designer 2017

- Designed and assembled an autonomous robot consisting of motors, motor drivers, sensors, and an **Arduino microcontroller**
- Created various sets of code to allow for the autonomous features

Rectifier 2017

- Designed, simulated and assembled a rectifier circuit to allow for a load to receive a DC voltage from an AC source

HOBBIES

- 3D printing, Lacrosse, Piano

EDUCATION

Bachelor of Engineering, Electrical Engineering
McMaster University, Hamilton ON

Expected Completion:
April 2019

- Enrolled in level 3 of the 4-year Electrical Engineering co-op program
- Maintaining a cumulative grade point average of 3.6 on a 4.0 scale
- Applied object oriented programming concepts and techniques, and demonstrated ability to program in **C**, **Java** and **Python** to specifications during programming labs
- Designed logic based circuits through **Altera Quartus** receiving an A in logic circuitry labs
- Demonstrated circuit theory by implementing and analyzing circuits during the circuitry labs
- Excellent written and verbal communication skills developed through teamwork experience

EXPERIENCE

Electrical Engineering Co-op

Sept 2017 – April 2018

General Motors Canada, Markham ON

- Created designs and generated specifications for various small projects
- Assisted senior engineers with equipment installations and start ups
- Diagnosed and resolved technical issues while providing technical support to the maintenance, production, quality and safety departments
- Improved existing tools and equipment to maximize efficiency and productivity by 30%

Geek Squad Computer Technician I

May 2016 – Aug 2017

Best Buy Canada, Hamilton ON

- Consulted with clients regarding their technological needs in addition to solving any technical problems
- Diagnosed technical problems and performed repairs or advised clients about available upgrading opportunities
- Provided technical information to clients on available products and services
- Received Technician-of-the-Month Award twice for providing outstanding customer service

EXTRACURRICULAR ACTIVITIES

Electrical Team Member

2016 – Present

McMaster Engineering EcoCAR3 Team, Hamilton ON

- Assisted with the design and build of the vehicle's high voltage hybrid energy storage system
- Assembled and installed 2 high voltage battery packs

Guitarist

2009 – Present

Ryson's Music Studio, St. Catharines ON

- Able to play both acoustic and electric guitar across a wide genre of styles including classical, country, fingerstyle, jazz, rock, etc.