

Trevor O'Leary

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Education

McGill University, Montreal, Quebec
Bachelor of Engineering – **Electrical Engineering**
CGPA: 3.64/4.0

Sept. 2015 – On going

Extracurricular Projects

Electronics Subsystem Leader – McGill Formula Electric FSAE

June 2018 – on going

- Lead hardware designer for MFE 20, McGill Formula Electrics entry for the 2019 FSAE season
- Designing and manufacturing of PCB's with Altium Designer to be functional and rule compliant for competitions
- Integration and packaging of PCBs into 3D cad for effective use of space and harnessing
- Training new members joining electronics coming from various backgrounds and skill levels
- Contact and meet company representatives from around North America to secure team sponsorships
- Project and time management throughout semester and summer

Team Member – McGill Formula Electric

June 2017 – June 2018

- Designed wire harness in 3D cad to specifications of entire vehicles wiring diagrams
- Manufacturing complicated wire harness's with various connectors and tools

Project Experience

ECSE 403 – Control Systems Lab, McGill University

Sept. 2018 – Dec. 2018

- Designed numerous controller types for inverted pendulum system including LQR, and PID controllers
- Calculated the dynamics of our system with analysis and testing

ECSE 335 – Microelectronics Lab, McGill University

Sept. 2018 – Dec. 2018

- Designed, simulated, built and tested multistage operational amplifier in a group of three
- Practical experience using common/differential mode amplifiers, buffer and outputs stages
- Measured frequency response and other characteristics through simulation and real-world testing

Hobbies & Activities

Build Acrobatic Quad Copter

June 2017 – Dec. 2017

- Applied research skills to purchase necessary parts and electronics
- Assembled the parts programing the flight controller with *CleanFlight* software

Music Production

- Create and produce my own original music including original instrumentation

Work Experience

Mas Playas Hacienda Restaurant – Waiter (Toronto, ON)

April 2016 – Aug. 2016

- Exercised communication and listening skills waiting tables to assure a fluid
- Used organizational skills in closing duties including balancing the cash

Gordon Bay Marine – Gas Dock Supervisor (Parry Sound, ON)

May – Sept | 2011 – 2015

- Liaised and built relationships with customers during service
- Used organizational skills facilitating boat rentals and employee schedule

Skills

Software

- Electrical and mechanical CAD tools: **Altium, Siemens NX, AutoCad, SolidWorks**
- Programming Languages: **C, C++, Simulink, MATLAB, VHDL, Java,**

Hardware

- Advanced experience with soldering, board prototyping, and PCB integration
- Applied experience with oscilloscopes, signal generators, analog circuit debugging and analysis