

# Leo Gabriel

## Mechathronics Engineering Student

Aspiring Mechatronics Engineer with a love for building stuff.  
Actively involved co-op student, quick learner and enthusiastic team member. Seeking co-op employment for the Winter 2021 semester.

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## EDUCATION

### Bachelor of Engineering (Co-op) University of Waterloo

09/2020 - Present

#### Relevant Courses

- Mechatronics Engineering
- Digital Computation
- Calculus I
- Linear Algebra I

### Ontario Secondary School Diploma Oakville Trafalgar High School

09/2016 - 06/2020

Senior GPA: 96.5%

#### Relevant Courses

- Tech Design
- Computer Engineering
- Computer Science
- Physics

## WORK EXPERIENCE

### Office System Administrator Doctor's Office

09/2016 - Present

#### Tasks

- Facilitated the digitization of over 500 patient medical records into a database using EMR software
- Wired and configured a new multi-room phone system
- Act as IT Support for the office staff. Solve any technical issues with the phone, computer, printer & fax systems

### Data Entry Clerk St. Andrew's Church

06/2019 - 08/2019

#### Tasks

- Designed an efficient system to digitize over 2000 marriage licenses dating back to the 1800's
- Various labour tasks around the church grounds

## VOLUNTEERING

### Bottld Canada (2017 - Present)

Founder & leader of this environmental engineering group. We build environmentally sustainable greenhouses using recycled bottles.

### OTHS Neurology Club (2017 - 2018)

Co-founded a student group to study the science of Neurology and prepare for the Canadian National Brain Bee.

### OTHS Junior Jazz Band - Lead Trumpet (2016 - 2018)

Practiced weekly with the band and performed at school concerts and regional competitions. Won Silver at the 2018 Collingwood Regional Music Festival.

## SKILLS & INTERESTS

Java

Python

C++

JavaScript

Robotics

SolidWorks

3D Printing

Basic Machinery

PCP Design

Computer Hardware

Iterative Design

## PERSONAL PROJECTS

### Barn Door Star Tracker

- Built custom tripod to track and photograph star movements over time
- Designed parts using Solidworks and 3D printing
- Used to capture photos of (these stars)
- Iterated on design

### OpenSimplex Procedural Map Generator

- Used X libraries/programming languages to build a map generator for this purpose

### Mecanum Drivetrain [🔗](#)

- Used these hardware/software skills to do this

### Bottld Canada

- Set up recycling donation boxes around the community
- Designed, prototyped and iterated on greenhouse design
- Partnered with the CN Tower to build a custom greenhouse to be displayed on the lawn (on hold due to COVID19)
- Gathered peers to help build greenhouses

### Arduino Thermostat System [🔗](#)

### Snake [🔗](#)

## AWARDS

### Computer Engineering Award (2020)

Awarded for achieving the highest grade (99%) in Grade 12 Computer Engineering.

### Chemistry Award (2020)

Awarded for achieving the highest grade (98%) in Grade 12 Chemistry.

### Finalist - Georgian College FIRST Robotics (2020)

Active member of FIRST Robotics team for 2 years. Our team's robot came second place in this regional competition.

### Team Spirit Award - FIRST Robotics (2020)

Celebrates extraordinary enthusiasm and spirit through exceptional partnership and teamwork during the FIRST competition season.

### Gracious Professionalism Award - North Bay FIRST Robotics Competition (2019)

Celebrates outstanding demonstration of FIRSTCore Values by working together both on and off the playing field.