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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Waterloo, Ontario 👂

leogabriel.ca 👄

linkedin.com/in/leo-gabriel-181412171 in

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 DiplomaOakville 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.

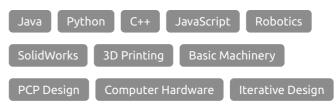
OTHS Neurology Club (2017 - 2018)

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



PERSONAL PROJECTS

Barn Door Star Tracker

- Built custom tripod to track and photograph star movements over time
- Deisgned 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 FIRST Core Values by working together both on and off the playing field.