

RYAN SETO

MECHATRONICS ENGINEERING

PROFESSIONAL SKILLS

Programming:

- C/C++
- Python
- HTML/CSS

Mechanical:

- AutoCAD
- SolidWorks

Other Skills:

- Microsoft Word and Excel

EDUCATION

University of Waterloo

September 2019 - May 2024

- BaSC in Honours Mechatronics Engineering

Relevant Courses:

- Currently taking:
 - Data Structures and Algorithms
 - Circuits

CONTACT



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AWARDS

- Semi-finalists at the FRC world competition in 2019
- Gold standing at OBA music festival in 2018

INTERESTS

- Sports: Bouldering, Skiing, and Ultimate Frisbee
- Hobbies: Board games, Coding and Hackathons
- Music: Clarinet

PROJECTS

Personal Website

Jan. 2020

- Developed an online portfolio sharing my resume and projects using **HTML**
- Styled a drop down navigational bar and several web pages using **CSS**, to enhance visuals

Space Invaders Game

Nov. 2017

- Programmed a basic version of Space Invaders using **Pygame** with multiple enemies, interactive shooting and movement

Controlled Mechanical Arm

Sept. 2019

- Collaborated with a team to design a mechanical arm with the ability to pick up small and thin objects
- Constructed using a Tetrix Kit and used several motors and a controller to operate the arm in two degrees of freedom

Assembly Robot

Oct. - Dec. 2019

- Coded in a **C-based language** to create a functioning Lego robot with autonomous movement
- Designed and built arms that actuated which enabled the robot to pick up objects
- Programmed the robot to use colour sensors to locate parts and assemble these parts together

Cellphone Stand

Nov. 2019

- Designed a cellphone stand from scratch that was modeled in **SolidWorks** and **3D printed**
- Stable functionality comparable to commercial products

EXPERIENCE

FIRST Robotics

Sept. 2016 - June 2019

- Managed a team of **50+ people** that scouted other teams during competition by using spreadsheets to compile data for future analysis
- Competed at regional, national and world FRC competitions with Team 4308 Absolute Robotics

University of Waterloo Formula Motorsports

Jan. 2020 - Present

- Working with the aerodynamics sub team to develop the outer shell of the car for the 2020 season
- Learned how to apply carbon fiber lay-ups