



MG

MICHAEL GULKA

Engineering Student

SKILLS

- Fluent in Python, Java, and C#
- Beginner's CAD using Autodesk Inventor
- Simple materials selection using ANSYS Granta
- Certifications:
 - Standard first aid with CPR-C
 - CANSail 1&2 Instructor
 - National Lifeguard (pending renewal)
 - G2 Drivers License

LEADERSHIP AND EXTRACURRICULARS

FRC Robotics Team 4618:

- De facto student-lead & head programmer
- Programmed computer vision algorithms for tracking goalposts and autonomous operations.
- Created a scouting application using Python and Java to track and analyze teams' performances at competitions, involving nearly 1300 data points.
- Generated specifications for robot tasks and their implementations with over 20 teammates and mentors.
- Designed, constructed, and tested various mechanical and electrical robotics components.

EDUCATION

BACHELOR OF ENGINEERING • ONGOING • MCMASTER UNIVERSITY

- Overall GPA of 9.5 (equivalent of 3.5 on the 4.0 scale)
- Participating in engineering design projects that simulate real-life engineering challenges and scenarios involving materials selection, programming, and solid modelling in a team environment.
- Enrolled in classes involving physics, mathematics, chemistry, and economics and their impacts on engineering.

OSSD • 26/6/2020 • SAINT JOHN HENRY NEWMAN CSS

- Graduated with a 90% overall average.
- Awarded Ontario scholar.
- Won Saint John Henry Newman Robotics and Programming Awards.
- Completed over 100 volunteer hours.

EXPERIENCE

LIFEGUARD/SWIM INSTRUCTOR • YMCA NIAGARA WEST • 4/2019 – 3/2020

- Taught swimming skills to approximately 240 students aged 4-13.
- Created lesson plans to ensure students were consistently engaged and learning.
- Developed strategies with parents to effectively instruct students.
- Built and maintained relationships with students, parents, and other staff.
- Evaluated students' performance and awarded levels based on improvements.

ABLE-SAIL COACH • ROYAL HAMILTON YACHT CLUB • 6/2019 – 9/2019 (SEASONAL)

- Instructed roughly 30 disabled people of all ages in dinghy sailing and racing.
- Taught theory and practical skills in a 1-on-1 environment
- Transitioned these skills into students' on-water experiences.
- Assessed students according to the CANSail 2 Curriculum and awarded levels and awards.
- Worked with up to 20 teammates and volunteers to maintain a safe and productive workplace.

