

MADHI NAGARAJAN

ENGINEERING, MCMASTER UNIVERSITY, CLASS OF 2023

HIGHLIGHTS OF QUALIFICATIONS

- Enrolled in level 1 of the 5-year McMaster Engineering CO-OP program; aiming to pursue Software Engineering in level 2
- Exemplified **adaptability** and **reliability** as a Robotics Instructor at Camp SAIL
- Displayed **exceptional leadership** and **delegation skills** as Vice President of FRC 4308: Absolute Robotics
- Demonstrated teamwork and competence in programming and hardware through the VoiceRC project

EXPERIENCE

ROBOTICS INSTRUCTOR

Camp SAIL - Peel District School Board // Mississauga, ON // July 2017 & July 2018

- Utilized prior knowledge in C, Arduino, and VEX robotics to create **engaging STEM workshops** and lessons
- Took the initiative to arrange a presentation for school teachers on how to implement robotics and programming in classrooms

VICE PRESIDENT

FRC 4308: Absolute Robotics // Mississauga, ON // June 2017 – June 2018

- Delegated and coordinated over **60 students**, 5 sub-teams, and managed the team's finances **of over \$20,000**
- Mentored students weekly on electromechanical systems and metal fabrication, necessary for team's growth and success
- **Met with numerous companies** to help raise over \$10,000 in sponsorships and fundraising
- Led the team to a **semi-finalist** finish at the FRC World Championship

PROJECTS

WHEELCHAIR ACCESSIBLE COMPACT TRAY (WACT)

September 2018 – December 2018

- Collaborated in a team of 4 to create a device that helps MS patients
- Designed the WACT using **Autodesk Inventor**
- Developed a report and formal presentation on the functionality and benefits of the WACT

VoiceRC

November 2018

- Created a smartphone-controlled robot, controlled by voice commands and Bluetooth & IR signals
- implemented using **Google's Speech-to-Text API** and **Android SDK**
- Conceptualized at a hackathon to provide implications on autonomous, voice-recognition vehicles

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SKILLS

Java, Python, C#, HTML
Android SDK, Visual Studio
Eclipse, Google APIs
Office Suite
Adobe Photoshop, Illustrator
AutoCAD, Autodesk Inventor

AWARDS

TECHNOLOGICAL AWARD

*Woodlands Secondary School
June 2018*

STUDENT CITIZENSHIP AWARD

*Woodlands Secondary School
June 2018*

DECA PROVINCIALS TOP 15

*DECA Ontario
February 2018*