

MATHURAN SADAGOPAN

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SKILLS

- Strong Leadership and communication skills
- Experience using Inventor AutoCAD and Solidworks
- Proficient in C++, Java, Python, Git(VCS) and various other languages
- Strong workshop skills
- Multiple OBA Gold standard awards for **playing trombone** in the Woodlands ensembles and Jazz Band



EDUCATION

Bachelor of Engineering (CO-OP) | McMaster University, Hamilton ON

Aspiring to specialize in Computer Engineering

| SEPTEMBER 2017 - APRIL 2021



EXPERIENCE

President of the Woodlands Robotics Club

| SEPTEMBER 2016 - JUNE 2017

- Overlooked the Design, Electrical and Programming aspects of the FRC robot as well as organize meetings.
- Participated in VEX EDR as well as overlooked the operation of 3 other teams
- Organized events as well as finance for the club, raising over \$15 000 in funds

Math Tutor

| JULY 2017 – AUGUST 2017

- Teaching Advanced Functions and Calculus to a student going into grade 12
- Acquired planning and higher-level thinking skills required to teach course material

Robotics Instructor | I CAN

| JULY 2017 – AUGUST 2017

- Taught kids from grade 1 to 7 robotics. Developed strong communication skills and established a fun environment for kids to learn about programming and mechanics



PROJECTS

Tesla Coil

| 2017

- Built a device that generated an electromagnetic resonance field.
- Can amplify a voltage to create large sparks of lightning as well as power light bulbs wirelessly

Collision avoidance vehicle

| 2017

- Built a small car that followed a wall using an ultrasound sensor and Arduino platform.
- Focused on using PID control to make robot faster and drive more accurately

Employee database user interface Application

| 2017

- Created a user interface for an employee database using NetBeans.

DELTA Hack IV: implemented muscle Gesture Control User interface

| 2018

- Using the myo armband's EMG sensors, 9 axis gyroscope and motion sensors, our team implemented a gesture interface to a 4x4x4 LED cube