

# MATHURAN SADAGOPAN

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mathuransada 

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## SKILLS

- Strong Leadership and communication skills
- Experience using Inventor AutoCAD and Solidworks
- Proficient in C++, Python, JavaScript, CSS, PHP, Unity, WordPress 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

### 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

### Web Dev Intern | Outsite the Box

| JULY 2018 – AUGUST 2018

- Made creative and functional websites using WordPress
- Used HTML, JavaScript, CSS and PHP to create custom features in WordPress



## 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

### 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

### Google Cloud Sprint: Fire-lytics projects

| 2018

- Attempted to combine product data, google vision API and ML to correlate product design to product sales.

### Whack-A-Mole AR

| 2018

- Built an interactive game built on Unity using googles' AR core
- Players can throw weapons at Moles that pop out of the floor in AR