

# Mathuran Sadagopan

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## Highlight of Qualification

- Experience using **Inventor AutoCAD and Solidworks**
- Experience using **C++, Java, Python, Docker, AWS**
- **Strong Leadership skill** as President of Absolute Robotics team
- **Strong teaching and communication skills** from tutoring
- **Strong work shop skills** such as using various power and hand tools
- Multiple OBA Gold standard awards from **playing trombone** in the Woodlands ensembles and Jazz Band

## Education

Enrolled in **MCMaster ENGINEERING 1 (Co-op)** aspiring to specialize in **Computer Engineering** | 2017

## Work Experience

**MATH TUTOR** | JULY – 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** | JULY – AUGUST 2017

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

**VOLUNTEERING | MISSISSAUGA CHITO-RYU KARATE CLUB** | SEPTEMBER 2013 – 2017

- Teach 4-6-year-old kids karate at my karate club. This experience taught me a lot about working with young kids but also working with people that are difficult to work with such as kids that are shy or hyperactive, or even older students who have autism. Furthermore, this experience taught me a lot about teaching and people.

## Extra- Curricular and Personal Projects

- **President** of The Woodlands Absolute Robotics Club. Competed in FRC and VEX robotics competition | 2015 – 2016
- DECA | 2011
- **Senior** Jazz Band trombone player | 2015 -2016
- Workout club **Exec** and played on the Senior Soccer team | 2015 -2017
- **Black Belt** in Karate | 2017

**BUILT A 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 from a distance

**BUILT A RED LED CUBE** | 2016

- A 4x4x4 array of LED lights that can individually light up, all powered by a single Arduino
- Various animations and games could be played on the cube using a custom-made button pad

**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

**CREATED AND RAN A PROJECT ENVIRONMENT ON AWS USING DOCKER** | 2017

- Using my previous project environment, I containerized it so that it could be deployed on AWS using docker services

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## Achievements

### **Education**

- Music Band repertoire award
- Silver Crest Award (maintained 80 % for all 4 years of school, Level 4 Music, gathered 30 community points from club involvement)
- Distinction in the CCC (Canadian Computing Competition)

### **MUSIC**

- OBA Gold standard for Woodlands Senior Wind Ensemble | 2014-2016
- OBA Gold standard for Woodlands Intermediate Jazz Band | 2014
- OBA Gold standard for Woodlands Senior Jazz Band | 2015