

# Calvin Suen

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## RELEVANT EXPERIENCE AND PROJECTS

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### ROBO-LIFT (MCMASTER CAD DESIGNATHON 2020)

- Redesigned the chassis for an iRobot Roomba to allow it to climb up stairs as part of a design challenge; side limbs were attached onto a rotating axis through the Roomba which would extend using telescopic arm mechanisms paired with linear actuators and the design was created in CAD as well as animated through dynamic simulation in Autodesk Inventor

### PYTHON 3

- Independently learned Python 3 through the "Python Bootcamp: Go from zero to hero in Python 3" course on Udemy.com which included projects such as a BlackJack game and a limit calculator

### RASPBERRY PI SPIDER ROBOT (IN PROGRESS)

- Currently assembling and programming a spider robot with colleagues which when finished will not only be able to move, but also be able to track objects and detect motion through computer vision as well as have a movement stabilization feature

### 3D-PRINTED GEAR HAND

- Designed parts including a mount, a gear mechanism, and fingers using Autodesk Inventor (CAD) which were 3D printed and assembled into a functioning gear-mechanism hand; the fingers on the hand are constrained to move at a set speed based on a calculated motor input speed

## EDUCATION

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### MCMASTER UNIVERSITY - Hamilton, ON

*Bachelor of Engineering – Level 1; planning to specialize in the Mechatronics Engineering stream in Level 2*

- **Relevant Courses:**

Engineering Design and Graphics – Experience in Autodesk Inventor (CAD)  
Engineering Computation (Currently Enrolled) – Further developing skills in Python 3 and programming  
Waves, Electricity and Magnetic Fields (Currently Enrolled) – Increasing understanding of electrical circuits

- **Extracurricular Activities:**

McMaster EcoCAR Electrical Propulsion Systems Team Member

- Experience with Siemens NX (CAD) and soldering; some proficiency with wiring diagrams and electrical circuits

## AWARDS AND ACHIEVEMENTS

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- McMaster President's Award (Received upon achieving a final admission average of over 95%)
- First Place, Mini-MEC (Mini-McMaster Engineering Competition, design competition hosted by the Innovation LLC)
- First Place, Richmond Hill Optimist Chess Tournament 2016
- Over 400 Hours of Total Volunteer Experience  
Volunteered at MCBC Vacation Bible Camp, the Scarborough-Agincourt Liberal M.P. Campaign, and various events (Unionville Festival, Richmond Hill Summer Carnival, RBC Markham-Milliken Children's Festival, Markham Festival of Lights and Santa Claus Parade, etc.) as well as providing math peer-tutoring in high school

## WORK EXPERIENCE

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### STAFF SHOP INC. - Toronto, ON

*Event Staff Member (Freelance), Aug 2019 – Present*

- Worked in a fast-paced food service environment while receiving on-the-job training with new tasks
- Handled the preparation of event/concession-style food items, the service of alcoholic beverages, and cashier duties
- Events worked at include Toronto Blue Jays games, Serena Williams' matches at the Rogers Cup, a Shawn Mendes concert, and a Hamilton Ti-Cats game at Tim Hortons Field

### LOBLAW COMPANIES LIMITED - Richmond Hill, ON

*Click and Collect/PC Express Associate (Part-Time), Aug 2017 - Jul 2019 (2 years)*

- Worked in a fast-paced retail environment which entailed strong verbal communication and coordination of team members
- Consistently held the highest UPH (units picked per hour) within the Click and Collect department, usually more than double the UPH of colleagues and received an award for outstanding customer service
- Also handled training of new staff members, sending emails to customers, issuing refunds, and cleaning

### PARAMOUNT IMMIGRATION & NATURALIZATION CONSULTING FIRM - Scarborough, ON

*Office Assistant Clerk, Feb 2017 - Jun 2017 (5 months)*

- Experience with Microsoft Office, Adobe Acrobat, translating documents, office equipment, replying to emails

## CREDENTIALS AND LICENSES

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- Standard First Aid, CPR-C and AED Certification
- G2 Driver's License