

ZACKARY REN



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S T U D E N T

O B J E C T I V E

To obtain a position as a summer intern student

S K I L L S

PYTHON

OPENCV

C

TENSORFLOW

HTML/CSS/JS

BASH

LINUX/UNIX

JAVA

V O L U N T E E R I N G

- Feb. 2019 – Nov. 2019
- Sponsorship Chair of MEC McMaster Engineering Competition Hamilton, Ontario
 - Organized 2-day engineering competition spanning multiple engineering disciplines

A W A R D S

- Sept. 2018
- President's Award McMaster University, Hamilton, Ontario

E X P E R I E N C E

- Sept. 2019 – Present
- Teaching Assistant – Department of Physics and Astronomy McMaster University, Hamilton, Ontario
 - Collaborated with students and professors to reinforce physics concepts
 - Led group-based learning discussions in tutorial and laboratories to compliment lecture material
- July 2018 – Jan. 2019
- Pharmacist Assistant – Progress Center Medical Scarborough, Ontario
 - Quickly and accurately packaged patients' prescriptions under pressure
 - Effectively communicated with patients to maintain consistent workflow
 - Took initiative to maintain an organized work environment by managing daily orders and inventory

P R O J E C T S

- July 2019 – Present
- 'PillPal' – Medication Tracker with Deep Learning Personal Project
 - Stiches label in 'reverse panorama' with OpenCV
 - Analyzes label with a Deep Learning OCR created using TensorFlow
- Mar. 2019 – Apr. 2019
- 'Mary-Pop-Opens' – Automated Umbrella Holder for Quadriplegic Client McMaster University, Hamilton, Ontario
 - Modelled the chassis of an umbrella holder using Autodesk Inventor
 - Utilized a Raspberry Pi to control two servo motors which automate the opening and closing of the umbrella
- Jan. 2019 – Feb. 2019
- 'Eyeconic' – Obstacle Detection Glasses for the Visually Impaired McMaster University, Hamilton, Ontario
 - Coordinated two sets of ultrasonic sensors and a Raspberry Pi for object proximity and altitude change detection
 - Modelled a pair of glasses and housing for ultrasonic sensors and buzzer module using Autodesk Inventor

E D U C A T I O N

- Sept. 2018 – Present
- Software and Biomedical Engineering McMaster University, Hamilton, Ontario
 - Developed many Biomedical related Health Solutions focused on computing and computer-aided design
- GPA: 3.8/4.0
Expected Graduation: May 2023
- Sept. 2014 – June 2018
- Bayview Secondary School, Richmond Hill, Ontario OSSD, with Honours