Eddy Su

CONTACT INFORMATION

Tel: (647)-685-0789
email: suc22@mcmaster.ca
Linkedin: linkedin.com/in/che-su-mac
GitHub: https://github.com/Drom0s137

EDUCATION

Bachelor of Technology, Automation Engineering Technology
McMaster University, Hamilton, ON
2019 - 2020

Bachelor of Engineering (Track One)
McMaster University, Hamilton, ON
Completion 2024

SKILLS

- Python
- Java
- C++
- Soldering
- Arduino
- Eagle CAD
- SolidWorks
- Fluent in English and Chinese

AWARDS

- Natural Sciences and Engineering Research Council, Undergraduate Student Research Award
- 1st in Halton Skills Competition (Robotics Team of 4) for 3 consecutive years
- 10th in Ontario Skills Competition (Robotics Team of 4)

HIGHLIGHTS OF QUALIFICATION

- Experienced user of Arduino, VEX Robotics, Robot C, and C++,
- Fast problem-solving skills demonstrated in 3 years of hands-on experience in robotics competition projects.
- Practiced leadership skills as the VP of the White Oaks Robotics Club.
- Managed and expanded the White Oaks Robotics Club from 4 to 50 people in 3 years.
- Fluent with the use of Microsoft Office tools including Word, and Excel.

WORK EXPERIENCE

AXIBO - BACKEND DEVELOPER
Guelph, ON | Sept 2020 - present

- Part of a team that designed and created the backend system for a camera system that track, pan, tilt, and slide to capture objects of interest automatically.

SUMMER RESEARCH STUDENT
McMaster University, Hamilton, ON | March 2020 - Aug 2020

- conducted research on the possibility of an abolute distance tracking algorithum for vehicles and pedestrains.

LONGO'S SOUTHEAST OAKVILLE - STARBUCKS BARISTA
Oakville, ON | Aug. 2018 - Dec. 2019

- Worked as a part-time barista. My positive relationships with customers and co-workers as well as my willingness to improve on feedback gained acknowledgement of the store manager and were appreciated by customers.

EXTRA-CURRICULAR ACTIVITIES

MCMASTER SOLAR CAR PROJECT - ELECTRICAL LEAD
McMaster University, Hamilton, ON | Sept. 2019 - Present

- A team member in an electrical group of 3 working on the design and build of the LVS (Low Voltage System) for an electric vehicle.
- Acquired basic knowledge and design experience on Eagle CAD and SolidWorks tools.
- Utilizing Eagle CAD for circuit design.

MCMASTER CHANGERS - COMMUNITY SOLUTIONS DEVELOPER
McMaster University, Hamilton, ON | Oct. 2019 - Present

- Gained knowledge on the importance and methods of problem identification aimed at developing engineering solutions for Hamilton HSR.
- Developed understanding of "voice of the customer" through interviewing and building lasting relationships with Hamilton HSR

MCMASTER MAKERS - CHEIF TECHNOLOGY OFFICER
McMaster University, Hamilton, ON | Sept. 2019 - Present

- Lead a team of engineering students to develop accessible workshops to students with no prior knowedge required.

MCMASTER SUMOBOTS - CO-PRESIDENT
McMaster University, Hamilton, ON | Sept. 2019 - Present

- Managed a club to create campus wide Sumobot competitions and created workshops on Sumobot related components to help students with no prior knowledge

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WHITE OAKS SECONDARY SCHOOL ROBOTICS CLUB - PRESIDENT

Oakville, ON | Sept. 2017 - May 2019

- Vice-President of the robotics club responsible for creating workshops, assigning and managing executives of the club.
- Created projects for participation in competitions. Developed and led workshops for team members to gain knowledge of Arduino, VEX Robotics, end-effector design, etc.
- Expanded the club from 4 people to 60 people with 8 executive positions in 3 years.

WHITE OAKS ROBOTICS COMPETITION TEAM - CAPTAIN

Oakville, ON | Sept. 2017 - May 2019

- Team-captain responsible for competition applications, conflict resolutions and development of competition robots.
- Founded and organized a 4-member robotics team to participate in the Ontario Skills Competition held annually.
- Obtained competition experience in team organization, conceptual design, prototype building, trouble-shooting, and demonstration in competitions.

PROJECTS

VOICE CONTROLLED ROBOT ARM

- created voice controlled robot arm using bit-voiced and Arduino with 3d printed robot arm.

MARS ROVER

- Working in team of 4 to develop an autonomously driven mars rover

NODE-RED-BASED IOT SYSTEM

- used node-red to create IOT system with accelerometer

MOTION DETECTION PROGRAM USING OPENCV

- Working in team of 4 to develop an autonomously driven mars rover