Che Su

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EDUCATION

McMaster University *Sept. 2019 – Apr. 2024*

- Mechatronics Engineering and Management, Bachelor of Engineering.
- GPA: 3.9
- Year 1
- McMaster Dean's Honour List (Apr. 2020), McMaster Honour Award (Dec. 2019), Natural Sciences and Engineering Research Council Undergraduate Student Research Award (May, 2020)

SKILLS

Programming Languages: C/C++, Java, Python, MATLAB, Go
Programming Libraries: Numpy, Matplotlib, OpenCV, Pysot, OpenPose
Other Tools: Git, BitBucket, Gitlab, Jira, Confluence, Visual Studio, Visual Studio Code, Soldering, TCP/UDP Sockets, Redis, ZeroMQ, node-red

WORK EXPERIENCE

Backend Developer | ARVI *Sep. 2020 – Dec. 2020*

- Integrated a **computer vision tracker** to the backend using C++ and python to a camera product: AXIBO
- Performed testing on various computer vision tracking solutions by creating a scoring system on the deviation from ground truth.

Summer Research COOP | McMaster University *May. 2020 – Aug. 2020*

- Created Labs and conducted research on the use of **node-red, TCP/UDP sockets, RabbitMQ, ZeroMQ, Redis as well as centroid Tracking/Motion Detection/Object Tracking using OpenCV**
- Was given the Natural Sciences and Engineering Research Council Undergraduate Student Research Award (**NSERC USRA**)

EXTRACURRICULARS

Chief Technology Officer | McMaster Makers *May. 2020 – Present*

- Lead a team of engineering students to learn and develop workshops to educated students around campus on engineering topics such as **html, OpenCV, SQL databases, Android Studio**, etc.

Electrical Lead | McMaster Solar Car Project *Sep. 2019 – May. 2021*

- 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.

Community Solutions Developer | Mac Changers *May. 2020 – May. 2021*

- 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**

PROJECTS

Project V.A.R.I.S | Robotics navigation Project

- Created a robotic research project to develop a user-friendly home assistance robot equipped with **3D-navigation** and **computer vision systems** to perform basic movements such as picking up items that fell on the floor and act as a security camera for the elderly.
- Secured funding from a McMaster professor to continue the project with better equipment.

Voice Controlled Robot Arm | Arduino Project

- Developed an **Arduino-based** voice controlled robot arm by integrating BitVoicer and using serial port information.