

Calvin Suen

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| Toronto, ON

Employment History

FORD MOTOR COMPANY

Waterloo, ON

Test Automation Student

May 2021 - Aug 2021 (4 months)

- maintained testing for ECUs using Python, the Slash framework, GitHub, Jira, and Jenkins as well as investigating sources of test failures and applying fixes through updating tests or accessing the control units
- wrote Python scripts to aggregate and display data collected from testing and Groovy scripts to generate Jenkins jobs using Jenkins Job DSL

MCMASTER UNIVERSITY

Hamilton, ON

Linear Algebra Teaching Assistant (MATH 1B03/1ZC3)

Jan 2021 - Apr 2021 (4 months)

- held office hours and assisted students with MATLAB lab assignments by explaining linear algebra concepts

Extracurricular Activities

McMaster NEUDOSE Communications Team

Firmware Specialist

- helped develop and maintain drivers in C/C++ to communicate with a real-time operating system on running on a STM32 microcontroller which will be on the communications board of the NEUDOSE miniature cube satellite launching in 2022 aboard SpaceX's Falcon 9 rocket

McMaster IEEE Student Branch

Elected Chair of Computer Chapter

- managed and mentored a team of more than thirty members in the development and preparation of technical workshops on various software and hardware topics including Arduino, Raspberry Pi, KiCAD, Soldering, OpenCV, React JS, and JavaScript

Projects

Raspberry Pi Workshops (McMaster IEEE Student Branch)

September 2021

- helped plan and develop McMaster IEEE's Beginner and Advanced Raspberry Pi workshops which included programming a Raspberry Pi car using OpenCV and Python to autonomously maneuver around a track using images taken from its camera for lane detection

MangaMark (Google Chrome Extension)

December 2020

- created and published a JavaScript-based manga bookmarking extension to the Chrome Web Store which automatically bookmarks the most recently read chapter of a manga or comic on compatible sites and allows for the sorting and deleting of bookmarks

Future Gadget Lab (Discord Bot)

October 2020

- programmed a Python Discord bot that is active in over fifty servers with features which include playing hangman or blackjack, using image filters, voice channel commands, returning Google search results, setting reminders, creating custom images with user avatars, text-on-image commands, and more
- involved reading documentation for various APIs and often required troubleshooting/finding errors

Education

MCMASTER UNIVERSITY

Hamilton, ON

Bachelor of Engineering – Mechatronics Engineering (CO-OP)

September 2019 – Present

RELEVANT COURSES

- Programming for Mechatronics [C, C++, ARM Assembly] (*Grade Earned: A+*)
- Data Structures, Algorithms, and Language Concepts for Mechatronics (*Grade Earned: A+*)
- Engineering Computation [Python] (*Grade Earned: A+*)
- Introduction to Databases [SQL] (*In Progress*)

Skills

Programming Languages: Python, C, C++, JavaScript, HTML, CSS, SQL, MATLAB, R

Software/Libraries: Git, Jenkins, OpenCV, TensorFlow, Jira, Eagle CAD, SolidWorks