

Education

Hamilton, ON	McMaster University	Expected Graduation April 2022
<ul style="list-style-type: none"> B.Eng. in Software Engineering (Co-op) 		

Work Experience

President	McMaster Engineering Society	March 2020 – Present
<ul style="list-style-type: none"> Setting the vision and direction of the MES for the incoming year within the scope of complimenting student education through efficient use of our three-quarter million dollar budget; providing and supporting mental & physical wellness, academic advocacy & equity, social events, technical & non-technical engineering involvement, and engineering student culture & traditions. Leading a team of seven Executives/Associate-Executives, providing guidance for their initiatives while ensuring a supportive and open team dynamic. Representing our 5500+ constituents to McMaster University as well as to provincial and federal organizations on academic concerns and legislation. 		
Vice President Academic	McMaster Engineering Society	March 2019 – March 2020
<ul style="list-style-type: none"> Worked effectively as part of an executive team to lead the society through recent provincial regulations negatively impacting student societies, while greatly improving the value and efficiency of offered services. Liaised with the Dean, Associate Deans, and Faculty heads regarding academic issues impacting over 5500 students such as curriculum changes, academic fairness, and program restructuring. Organized/assisted all major academic initiatives of the Faculty of Engineering and the McMaster Engineering Society. 		

Projects

- alexmoica.com (2020):** Personal professional website created to increase my internet presence while better advertising myself to potential employers. Written in pure HTML & CSS, implementing JavaScript for various animations and transitions. *Skills developed: HTML, CSS, JavaScript, Photoshop*
- FriendFinder (2020):** Desktop application implementing graph data structures and Dijkstra's algorithm to find the shortest path from a user's current position to a designated location so that they would connect with an optimal number of friends on the way. *Skills developed: Java, Documentation, Git*
- Food Image Recognition (2019):** Machine learning application created to distinguish between a variety of fruits and vegetables. Based off of Tensorflow and using the CIFAR-100 database for training images, this program takes accepts user inputted images through a Tkinter GUI and identifies them by type of food. *Skills developed: Tensorflow, Python, Git*

Activities & Leadership

Director of Public Relations	McMaster Engineering Society	April 2018 – March 2019
<ul style="list-style-type: none"> Grew social media channels by over 40 000 engagements, and exemplified leadership and oral communication skills through communicating effectively with over 5000 students to create and promote events and activities. Promoted all activities and initiatives of the MES to the Faculty, university, communities, and industries. Effectively collaborated with industry representatives to coordinate joint initiatives. 		
Design Coordinator	McMaster Engineering Competition	Feb. 2018 – Nov. 2018
<ul style="list-style-type: none"> Employed teamwork and time-management skills in leading a team of volunteers and overseeing logistics to keep the competition running smoothly. Implemented an innovative challenge that tackles one of societies biggest engineering-related problems to offer aspiring engineers experience towards building their confidence and competence in engineering. Created instructional booklets and large-scale testing apparatus used for judging the submitted designs. 		

Computer Science Mentor

Google & McMaster Outreach

Oct. 2017

- Alongside Dr. Christopher Anand, mentored ~50 students from Huntington Elementary School on functional programming, demonstrating **computer, analytical, problem solving**, and **oral communication skills** in writing, debugging, and compiling both personally written and student written code.
- Taught and helped students implement basic programming and mathematical principles.

Skills Overview

- **Industry Tools:** *Linux (Ubuntu/Debian), Git, Tensorflow, Eclipse, LaTeX, Doxygen, Flutter, Android Studio, Photoshop*
- **Technical Skills:** *C, Python, Java, HTML, CSS, JavaScript, NASM, ARM LEGv8, Dart, MATLAB, Maple, Discrete Math, Data Structures & Algorithms*
- **Non-Technical Skills:** *Team Leadership, Technical Writing, Documentation, Crisis Resolution, Accountability*
- **Personal Skills/Hobbies:** *Romanian (Fluent), French (Intermediate), Muay Thai (4 years), Skateboarding, Classical & Electric Guitar, Reading, Running*

Achievements

- Leading the MES response to COVID-19 in an effort to continue providing our services to students and to keep them socially connected throughout the cancellation of in-person classes and non-essential events by McMaster University.
- As part of a team, successfully responded to the Student Choice Initiative policy implemented by the provincial government in 2019 (repealed) with a 71% retention in student MES membership.
- Finished the Waterloo Harvest Half 2019 half-marathon with a 5:21 pace.
- Won McMaster Hebocon 2020 with my team.