

MICHAEL ZHENG

MECHATRONICS ENGINEERING STUDENT (YEAR 3)

CONTACT DETAILS

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RELEVANT COURSEWORK

- Data Structures and Algorithms (C)
- Engineering Design (Inventor and Python)
- Analog and Digital Circuits
- Electrical Circuits and Power
- Software Development (MATLAB Simulink)

ACHIEVEMENTS

- Woodlands Level 4 Music Award
- Maj Tom Howard Fitness Award

EDUCATION

MCMASTER UNIVERSITY (2019-PRESENT)

Year 3 Bachelor of Engineering (Co-op)

THE WOODLANDS SECONDARY SCHOOL (2015-2019)

High School

SKILLS AND QUALIFICATIONS

- Autodesk inventor, Solidworks, KiCad
- DaVinci Resolve, Blender
- Multisim SPICE
- C/C++, Arduino, JavaScript, Python
- Cisco IT Essentials Course
- Canva, Microsoft Office, LaTeX
- Red Cross First aid and CPR (Level C)
- Wilderness First Aid certified

PROJECTS

HACK THE NORTH 2021 - SCRIBBL

- Used Python to create image processing program to convert images to vectors
- Vectors fed into an Arduino robot in order to draw image in real life

NIXIE TUBE CLOCK

- Designed a nixie tube alarm clock powered by Arduino
- Entirely built from scratch, including desiging PCB, Arduino code, and chassis

WORK EXPERIENCE

CANADIAN ARMY RESERVES - SIGNAL OPERATOR

John Weir Foote Armoury, Hamilton, Ontario | September 2021 - Present

- Work with PC hardware and software maintenance
- Work with communications equipment, including high frequency radios, and networking infrastructure

STAFF CADET

Blackdown Cadet Training Centre | June-August 2018 /2019

- Taught 3 week courses throughout summers of 2018 and 2019
- Instructor and mentor for groups of 30 cadets aged 13-16
- Taught hard skills, including fitness, sports, mountain biking, backcountry hiking, and canoeing
- Resolved both interpersonal and intrapersonal conflicts of cadets and fellow staff members
- Wrote course reports summarizing the cadets' performance throughout their time at the training centre

EXTRACURRICULARS/VOLUNTEERING

2824 RCAC - COMPANY SERGEANT MAJOR

(Oct. 2014-2019)

- Planned and organized training for the company, including lessons, fitness, and activities such as sports, shooting, and volunteer opportunities
- Taught and mentored 50+ cadets aged 12-18 in many skills, including leadership, citizenship, and fitness

CONCERT BAND - SECTION LEADER

(Sept. 2015-June 2019)

- Taught other musicians in Trombone/Euphonium section in playing their instruments
- Organized weekly sectionals and managed the sheet music
- Qualified for National competition twice

MCMASTER CULTURE CONNECT - VP MARKETING

(Aug. 2021 - Present)

- Founding member of McMaster Culture Connect - a multicultural club at McMaster
- Managed marketing components of club, including student outreach, creating marketing material and managing club social media accounts

MCMASTER EXPERIENCE VENTURES

(Oct. 2021)

- Worked with College Pro Window Cleaning executives
- Collaborated with other students to develop products to increase operating efficiencies, such as route optimization and a cost estimator