

MOBILE

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Markham, Ontario

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Thomas Kean

HIGHLIGHTS OF QUALIFICATIONS

Quick Learner – Evident through my success and recognition while working at Hatch Ltd. as a co-op student

Leadership Acumen – Developed through multiple roles on the McMaster Engineering Society

Team Oriented – Developed as a member of the McMaster EcoCAR Propulsion Controls and Modelling sub-team

EDUCATION

McMaster University

Expected Graduation:
May 2022

Bachelor of Engineering Physics and Management (Co-op)

Currently enrolled in level 3 of a 5-year co-op program with an intended specialization in Digital & Smart Systems Engineering

WORK EXPERIENCE

TEACHING ASSISTANT

McMaster Engineering
Careers and Coops Services
Sep 2019 - Present

- Developed strong **coaching skills** by mentoring students in career and co-op development
- Demonstrated **attention to detail** during one-on-one resume critiques

MECHANICAL ENGINEERING CO-OP STUDENT

Hatch Ltd.
May - Aug 2019

- Demonstrated **data analytical skills** by implementing automated analysis of mechanical equipment lists with the **Python Pandas** data analysis library
- **Improved efficiency** by developing python and excel tools to reduce time required to calculate equipment and stockpile sizes

FIRE PROTECTION ENGINEERING CO-OP

Hatch Ltd.
May - Aug 2018

- Worked with **an interdisciplinary team** to conduct a fire hazard analysis of a high-risk of contamination facility
- **Learned quickly** when conducting a hydraulic calculation for a fire ring main in an ore refining facility

MECHANICAL ENGINEERING CO-OP

Hatch Ltd.
Jul - Aug 2017

- Utilized **problem solving** when modelling noise propagation and conducting vibration analysis
- **Reduced costs** for clients by optimizing vibration mitigation solution

HEAD GUARD

City of Markham
Oct 2016 - Aug 2017

- Promoted for demonstrating strong **leadership skills** to ensure safety of **300 patrons** and supervising staff
- Advanced **verbal communication and interpersonal skills** through providing customer service to patrons and participants
- Demonstrated **reliability** by ensuring to swim and lifesaving programming ran smoothly

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EXTRACURRICULAR EXPERIENCES

**Orientation Week
Committee Member**
McMaster Engineering
Society
January 2020 – Present

- **Communicate with multiple stakeholders** to organize and coordinate leadership and orientation events for over 1000 first year students and 150 Engineering representatives
- Plan and develop events **adaptive** to a diverse group of incoming first-year students to foster a culture of inclusion and mentorship

**Propulsion Controls
Modeling Specialist**
McMaster EcoCAR Team
Mar 2019 – Present

- **Collaborate** to hybridize propulsion systems and improve the energy efficiency of a 2019 Chevrolet Blazer for the EcoCAR mobility challenge
- Developed control strategies using **MatLab Simulink** to optimize fuel and battery consumption, balancing rear high voltage electric motor and engine use

Public Relations Director
McMaster Engineering Society
May 2019 – Present

- Increased **student engagement** through social media campaigns resulting in a **75% growth** of social media followers over **6 months**
- Demonstrated **planning and organizational skills** by managing several promotions and campaigns on multiple social media platforms

The Drain
Service Desk Volunteer
Jan 2019 – December 2020

- Utilized strong **customer service skills** by volunteering at the McMaster Engineering Society's student shop and service desk
- **Supported** on-boarding of new service desk volunteers to ensure consistent high quality of customer satisfaction

Faculty Representative
McMaster University, Faculty
of Engineering
May 2018 – September 2019

- **Fostered community** by welcoming **1000+** first-year students to McMaster Engineering during Welcome Week 2018 and 2019
- Entrusted to lead events in a **fast-paced environment** for first-year students while ensuring student engagement and comfort

Delegate
Canadian Engineering
Leadership Conference
Jan 2019

- **Engaged** with engineering students at the Canadian Federation of Engineering Students' annual leadership conference
- **Problem solved** to address "21st Century Engineering: Corporate Social Responsibility" and how to implement it in our student communities

DeltaHacks
Hack-a-thon at McMaster
University
Jan 2018 & 2019

- **Problem solved** by designing an android application targeted to help McMaster students during Welcome Week
- **Met tight deadlines** by developing a minimum viable product in under 24 hours

SOFTWARE

Multisim
MS Office Suite
Maple 2017
FlexPDE
Raspberry Pi

PROGRAMMING

MatLab
Simulink
Python
JavaScript
Arduino

AWARDS

Hatch Student Showcase Winner, 2018
First place in both Best in Show and Best Content Selection categories
Grade 12 French Award
Grade 12 English Award
Five Scholarships Received for outstanding academic performance and extracurricular involvement.