

Academic Interests: Computer Systems and Architecture, Parallel Computing, Machine Learning, and Scientific Computing

Education

MASc Electrical and Computer Engineering

GPA: TBD

Supervisor: [Mark C. Jeffrey](#)Thesis: [TBD](#)

University of Toronto

2025 - Present

BESc Electrical and Computer Engineering

GPA: 88.76% (4.0)

University of Western Ontario

2021 - 2025

Professional Memberships

IEEE Student Member

2022 - Present

ACM Student Member

2025 - Present

Experience

Undergraduate Researcher [AILearn Lab](#)

May 2024 - Aug 2025

- Undergraduate researcher under Yimin Yang, working on closed form optimization for vision transformers.

Undergraduate Researcher [Frugal Biomedical Innovations Program](#)

Summer 2023

- Worked on cost-effective imaging tools for diagnosis in low resource settings (under NDA).

Intern [Fusion Next](#)

Summer 2022

- Worked on Android app development for the location based social media app Doweing.

Intern [Lin-Lab \(National Yang Ming University\)](#)

Summer 2019

- Interned under Dr. Shih-Chih Lin, assisting with research on non-cholinergic neuron activity in the basal forebrain.
- Built impedance measurement circuits used for in-vivo experiments.

Teaching/Mentorship

Mentor [FIRST Robotics Competition Team 4617](#)

Oct 2022 - May 2025

- Taught high school students in building, designing, and programming robots for the FIRST Robotics Competition.

Teaching Assistant [Western Engineering Summer Academy \(WESA\)](#)

July 2024

- Helped run a summer school course in arduino and C programming to secondary school students over the course of a week.

Workshop Teaching Assistant [Western University](#)

Fall 2021

- Helped run computer aided design (CAD) workshops for a first year engineering course, teaching around 50 students an introduction to CAD software.

Teaching Assistant [Taipei American School Summer School](#)

Summer 2020

- Assisted a robotics summer course at Taipei American School, where students worked in teams to complete electric go-karts.

Events / Volunteering

Canadian Engineering Competition <i>Participant</i>	Mar 2024 Calgary, AB, Canada
Ontario Engineering Competition <i>Participant</i>	Jan 2024 Kingston, ON, Canada
Western Engineering Competition <i>Participant</i>	Jan 2024 London, ON, Canada
<ul style="list-style-type: none">Competed with a team of 4 at the Canadian Engineering Competition, qualified through placing first at the regional and institutional competitions.	
Western Engineering Ri3D <i>Organizer</i>	Jan 2024, Jan 2025 London, ON, Canada
<ul style="list-style-type: none">Organized an annual event building a robot within 72 hours of the game rules being released	
Western Engineering Ri3D <i>Participant</i>	Jan 2023 London, ON, Canada
<ul style="list-style-type: none">Organized an annual event building a robot within 72 hours of the game rules being released	
Western Open House <i>Volunteer</i>	Mar and Nov 2023 London, ON, Canada
<ul style="list-style-type: none">Talked to prospective students about engineering programs at Western University.	
Hack The North <i>Participant</i>	Oct 2023 Waterloo, ON, Canada
<ul style="list-style-type: none">Built a small project in a team of 3 over 48 hours	
FIRST Robotics Competition @ Western University <i>Volunteer</i>	Mar 2023 London, ON, Canada
<ul style="list-style-type: none">Volunteer referee and robot inspector for the 2023 FRC Event at Western.	
SAE Aero Competition East <i>Participant</i>	Mar 2023 Lakeland, FL, USA
<ul style="list-style-type: none">Competed as a team member of Western Aero Design.	
Hack Western 8 <i>Participant</i>	Nov 2021 London, ON, Canada
<ul style="list-style-type: none">Built a small project over 37 hours, winning 4th place overall as the only prize winning and top ranking solo team.	

Achievements / Awards

Edward S. Rogers Sr. Graduate Scholarships <ul style="list-style-type: none">Scholarship for U of T ECE graduate students (automatic consideration).	Oct 2025
Bill and Barbara Etherington Fellowship <ul style="list-style-type: none">Awarded to the top 4 Western ECE USRA applicants each year.	May 2025
Western Deans Honor List (with Distinction) <ul style="list-style-type: none">Achieved an average above 80% and no failed courses each year.	2022, 2023, 2024, 2025
NSERC Undergraduate Student Research Awards (USRA) <ul style="list-style-type: none">The NSERC awards over 3,000 students for undergraduate research work each year in Canada.	May 2024
Arthur S. Coveart Award <ul style="list-style-type: none">A merit-based award recognizing accomplishments of 3rd year ECE students.	Nov 2023

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| Frugal Biomedical Innovations Summer Internship Award | May 2023 |
| <ul style="list-style-type: none"> • An award sponsoring undergraduate summer research students at one of the Frugal Biomedical Innovations Projects. | |
| Western Admission Scholarship | Aug 2021 |
| <ul style="list-style-type: none"> • Awarded to incoming students with a final admission average of 90% - 91.9%. | |
| TAS Ada Lovelace Leadership Award in CS/Robotics | Jun 2021 |
| <ul style="list-style-type: none"> • An award recognising achievements in computer science and robotics through leadership of club activities. | |

Extracurriculars

Western Engineering FIRST

Vice President	Sep 2024 - April 2025
Member	Sep 2022 - April 2025

Western IEEE Student Branch

Member	Sep 2022 - May 2025
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Western Engineering SAE Aero Design

Junior PADA Lead	Sep 2022 - Sep 2023
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Raid Zero (First Robotics Competition Team 4253)

Co-Captain	Jun 2020 - Jun 2021
Head of Programming	Jun 2019 - Jun 2021
Member	Oct 2017 - Jun 2021

TAS_Taipei (IGEM High School track team)

Software and Modeling Lead	Nov 2019 - Nov 2020
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