

Key Skills

- ❖ Proficiency in Python, MATLAB and SolidWorks; completed coursework in C++ and Verilog
- ❖ Experience with analog electronics, PCB design, radio-electronic circuits, oscilloscope, debugging
- ❖ Fabricating various materials, using power tools and machining equipment
- ❖ Troubleshooting issues in a methodical and creative manner

Education

BASC IN ENGINEERING SCIENCE (ELECTRICAL & COMPUTER ENGINEERING), 3.74 GPA 2019-PRESENT
UNIVERSITY OF TORONTO

- Machine Shop and Welding Training at George Brown College
- Calculus, Linear Algebra, Differential Equations, Computer Science, Probability & Statistics
- Electromagnetism, Circuit Theory, Digital & Computer Organization, Engineering Design

HONORS AND AWARDS

- ❖ NSERC USRA: National Science & Engineering Research Council of Canada, 2021
Undergraduate Student Research Award
- ❖ First Year Summer Research Fellowship Grant Recipient 2020
- ❖ Wallberg Admission Scholarship to First Year of [Engineering Science](#) 2019
- ❖ 2nd place in Northern California Science Olympiad for [Mission Possible](#) 2019

EXPERIENCE HIGHLIGHTS

MODELICS Lab, Summer Research Intern MAY-AUGUST 2021

- Helped verify accuracy of results from a novel computational electromagnetic solver by creating a Python library for calculating the Radar Cross Section of lossy dielectric spheres.
- Presented research at the Undergraduate Engineering Research Day ([UnERD](#)) Conference.

Reconfigurable Antenna Laboratory, Summer Research Intern MAY-AUGUST 2020

- Researched space antenna deployment methods suitable for aerospace industry partner.
- Designed a novel mechanism for high-gain, bandwidth deployable [metasurface antenna](#).
- Created SolidWorks and physical prototypes; developed testing setup to evaluate performance.

Science Olympiad, High School Captain and Volunteer 2017-PRESENT

- Designed [devices](#) and completed Olympiad [tests](#) that won awards at the state tournament.
- Coordinated a team of 10 individuals working on 6 engineering competition projects.
- Developed and delivered a training course introducing physics, engineering design, and fabrication skills to high-school students as a volunteer mentor.

Computer Science and Digital Electronics Training 2018-2020

- Completed a two-year career-technical education course with hands-on instruction.
- Wrote programs and designed a GUI application in Python.
- Built digital circuits using discrete components & Verilog code for FPGA development platform.
- Designed and built a simple autonomously navigating robot using an Arduino and sensors.