

Danelle D'Souza |

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EDUCATION

University of Toronto (BASc – Computer Engineering) Expected Graduation 2026

- Received the Dean's Merit Award and Edward S. Rogers Sr. Admission scholarship
- Relevant courses: Computer Fundamentals (C), Programming Fundamentals (C++), Digital Systems (Verilog), LearnAI (PyTorch)

SKILLS

- **Software/Programming Languages:** Python; C; C++; JavaScript; HTML; CSS; MATLAB; GitHub; Git; Docker; Microsoft Office; Figma; Verilog; Assembly
- **Skills:** Organisation; passion for learning; planning; verbal and written communication; problem-solving; time management; teamwork; customer service; working well under pressure; detail-oriented

WORK EXPERIENCE

Engineering Outreach (UofT) – Program Facilitator & Content Specialist May 2023 – Aug. 2023

- Developed and taught a week-long hardware course for students in grades 11 and 12, focused on the basics of Arduino, C++, and the engineering design process and their real-world uses alongside one other facilitator
- Created teaching materials such as slides, code-along materials on Google Colab, and prototypes for six Arduino-based projects

EXTRA-CURRICULAR HIGHLIGHTS

UTRA: Autonomous Rover Team – Embedded Systems Member Sept. 2023 – Present

- Using Arduino and Raspberry Pi to implement and test the embedded and electrical components on both an existing rover and the team's first new rover in 5+ years
- Integrating software components (ROS and PyTorch) primarily written by other sub teams and simulating changes to both rovers in ROS
- Implementing the use of multiple sensors (IMUs, GPS, Cameras, LiDAR) to ensure the rovers are able to orient themselves and autonomously move through obstacle courses in an international competition

Electrical & Computer Engineering (ECE) Club – Academic Director Aug. 2023 – Present

- Maintaining proactive communication with all class representatives under the ECE department to ensure efficient resolution of academic issues, such as exam time conflicts and course-related grievances
- Collaborating with faculty, course coordinators, and the ECE Associate Chair of Undergraduate Studies, in addition to representing absent ECE Class Representatives at faculty meetings when necessary
- Actively participating in the Academic Advocacy Committee, administration of course feedback, and contributing to the development of a centralized database of course feedback

Institute for Electrical & Electronics Engineers (IEEE UofT) – Logistics Associate Apr. 2023 – Present

- Working with a small team of students to plan the logistics of various events, such as hackathons, workshops, and professional development events, with upwards of 250 attendees
- Organizing information obtained through liaison with various companies about merchandise, services, and other goods to ensure all events remain within budget

PROJECT EXPERIENCE

UTEK 2023 Programming Competition – 2nd Place Nov. 2023

- Created a recursive solution in Python to an optimization problem with a team of three other undergraduate students in under seven hours

Hackathon Projects – Miscellaneous Oct. 2022 – Present

- Journa (HTML, CSS, JavaScript), Productive Pet (HTML, CSS, JavaScript), MorsePad (Arduino, C++), SymptoDoc (Python, Cohere API, HTML, CSS)