

# Charlie Lau

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## EDUCATION

### University of Toronto

Toronto, ON

Bachelor of Engineering - Materials Engineering + PEY Co-op

Class of 2029

- Relevant Coursework: Calculus, Linear Algebra, Chemistry and Material Science, Engineering Design

### Pierre Elliott Trudeau High School

Markham, ON

Ontario Secondary School Diploma

Class of 2025

## EXPERIENCE

### Influencer Assistants

Toronto, ON

Administrative & Data Analysis Assistant

Aug 2023 - Dec 2024

- Managed scheduling, documentation, and professional email correspondence to support daily operations.
- Analyzed viewer and engagement data using Microsoft Excel, tracking KPIs against historical benchmarks.
- Conducted A/B testing on content strategies, increasing views by 5% and audience engagement by 7%.

## EXTRA-CURRICULAR ACTIVITIES

### University of Toronto Aerospace Team

Toronto, ON

AEAC Drone Designer Team - Member

Sep 2025 - Present

- Assisted in the testing and analysis of a liquid payload system, achieving a 12 m/s exit velocity and a 4.3 m range with a level nozzle under prop-wash conditions.
- Contributed to the development of a V2 higher-capacity tank (1.5 kg total payload mass) featuring integrated pitch control for nozzle orientation and a check-valve air intake for 90° roll waterproofing.

## PROJECT EXPERIENCE

### Personal Website

Markham, ON

Project Manager

Dec 2025 - Present

- Developed an engineering concept proposal and technical design report outlining system requirements.
- Built a responsive frontend using React, utilizing component-based architecture to create a modular and seamless user interface.
- Optimized performance through asset optimization and code-splitting, achieving sub-1 second load times.

### Equitable Access to High Park

Toronto, ON

Project Manager

Oct 2025 - Nov 2025

- Led a student engineering team to design an accessible route solution for High Park in Toronto.
- Coordinated team meetings and maintained project timelines to ensure deliverables meet accurate engineering design specifications.
- Developed a targeted accessibility solution for the steepest segment of the High Park trail (7° incline), identifying this area as the critical gap for users with mobility challenges.

### Space Jet Fighter

Markham, ON

Team Leader

Nov 2025 - Dec 2025

- Managed a team in the full-stack development of a multi-level Java-based arcade game.
- Designed the User Interface (UI) and User Experience (UX), optimizing navigation flows and control responsiveness.
- Developed a targeted accessibility solution for the steepest segment of the High Park trail (7° incline), identifying this area as the critical gap for users with mobility challenges.

## SKILLS & ACTIVITIES

**Technical Skills:** Python, Java, React, Node.js, Microsoft Excel

**License and Certification:** Snowboard Instructor (2023-Present), Python (CS50 coursework), Java (Peking University)

**Job Simulations:** GE Aerospace Explore Supply Chain Job Simulation (2024), J.P. Morgan Investment Banking Job Simulation (2024)

**Language:** Fluent in English, Cantonese and Mandarin