

Charlie Lau

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EDUCATION

University of Toronto <i>Bachelor of Engineering - Materials Engineering + PEY Co-op</i> • Relevant Coursework: Calculus, Linear Algebra, Chemistry and Material Science, Engineering Design	Toronto, ON Class of 2029
Pierre Elliott Trudeau High School <i>Ontario Secondary School Diploma</i>	Markham, ON Class of 2025

EXPERIENCE

Influencer Assistants <i>Administrative & Data Analysis Assistant</i> • 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%.	Toronto, ON Aug 2023 - Dec 2024
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EXTRA-CURRICULAR ACTIVITIES

University of Toronto Aerospace Team <i>AEAC Drone Designer Team - Member</i> • 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.	Toronto, ON Sep 2025 - Present
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PROJECT EXPERIENCE

Personal Website <i>Project Manager</i> • 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.	Markham, ON Dec 2025 - Present
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Equitable Access to High Park <i>Project Manager</i> • 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.	Toronto, ON Oct 2025 - Nov 2025
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Space Jet Fighter <i>Team Leader</i> • 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.	Markham, ON Nov 2025 - Dec 2025
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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