Daniel Hong

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EDUCATION

University of Toronto Sep 2023 - Apr 2028

BASc in Engineering Science 4.0 GPA

- Frank Howard Admission Scholarship ($5000), National Book Award
- Varsity Track and Field, Engineering Society

Bloor Collegiate Institute Sep 2019 - June 2023

High School Diploma, TOPS Certificate 98.12 Average

- Two-year Student Council Member, founder of Newspress Club (50+ members), yearbook director.
- AP Physics B, AP Physics C, Digital Design Subject Awards. Graduating athlete of the year scholarship, track and Field OFSAA Qualifier, Varsity Volleyball MVP, Varsity Ultimate MVP.

EXPERIENCE

University of Toronto Aerospace Team (UTAT) Sep. 2023 - Present

Mechanical Subteam Member

- Designed and optimized Quadcopter fuselage bulkheads and stringers using SolidWorks and Ansys for the 2024 National Unmanned Aerial Systems competition.
- Conducted stress and flow simulations to refine the fuselage design, ensuring superior performance and compliance with competition standards.
- Played a hands-on role in molding, laser cutting, and construction, contributing to the successful fabrication of the Quadcopter.

University of Toronto Wind Team (UWind) Dec. 2023 - Present

Mechanical Subteam Member

- Used solidworks to model and design the nacelle of a small-scale wind turbine in preparation for the 2024 International Small Wind Turbine Contest.
- Optimized the design for component accessibility and aerodynamics using Ansys and Solidworks.

Spirit of Math & Teenage Tutors Sep. 2022 - Current

Assistant Teacher, Tutor

- Led instructional exercises as an Assistant Teacher for a 6th-grade class at Spirit of Math. Worked one-on-one with students.
- Tutored my high school clients calculus, mechanics, and functions.

PROJECTS

EcoSort (project link) Feb. 2024

- Engineered a voice-controlled waste dispenser using Raspberry Pi, Google Speech's API, Python, C++, and Arduino.
- Applied machine learning with a self-trained Naïve Bayes classifier for accurate item categorization (garbage, compost, or recycling.

SKILLS & INTERESTS

- **Skills**: Solidworks, Matlab, Python, Java, C, CSS, Javascript, HTML, Photoshop, Adobe Illustrator, Adobe Indesign, Adobe Premiere, Adobe After Effects, Netlify, MS Office, Live Transcripting, Leadership, Teamwork
- **Languages**: English, Chinese, French