

Sean Huang

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Education

University of Toronto

Engineering Science

September 2020 to April 2024

- Bachelor of Applied Science, Second Year Engineering Science student targeting Aerospace option
- Cumulative GPA of 3.02, earned 4.0 on two first year Computer Science courses. Earned UofT Engineering Scholarship

Work Experience

STEM Enrichment Instructor

UofT Engineering Outreach

November 2021 to Present

- Responsible for teaching a group of thirty students about topics in STEM such as Computer Science and Aerospace

Web Developer

Students for the Exploration and Development of Space

October 2021 to Present

- Responsible for maintaining website and online portal for SEDS Canada
- Overhauled online registration portal and database, increasing efficiency by 20%
- Worked with organization officers to improve layout of our online presence to enhance user experience

Safety and Testing Officer

University of Toronto Aerospace Team

September 2020 to Present

- Responsible for the personal health and safety of all members of UTAT Rocketry Division, and all testing procedures
- Implemented improved safety procedures, decreasing instances of minor injury

Warrant Officer 2nd Class

188 Cobra Squadron Royal Canadian Air Cadets

January 2017 to September 2021

- Served as the leader of a flight of twenty cadets, mentoring them through the ranks of the cadet program, and as a senior officer, improving the efficiency and retention rate of our squadron
- Earned LCol S.L. Beaton Trophy for Top Cadet in General Training and Cpl Osbourne Award for Top Junior NCO

Project Experience

Apollo Guidance Computer | Personal Side Project

- Currently in the conceptual stages of coding and building a replica of the Apollo Guidance Computer and DSKY using CAD, Verilog and other electrical engineering skills learnt in courses

Defiance Hybrid Rocket and Houbolt Jr. Liquid Rocket | University of Toronto Aerospace Team

- Developed safety and testing procedures for our ground component and cold flow tests
- Developed shock force validation test to confirm predicted loading on parachute components during deployment
- Contributing to the design of our liquid fuelled rocket in the propulsion and avionics subsystems using CAD and MATLAB

Rotational Grazing Plan | Harmony Farms

- Spearheaded the design and layout of a rotational grazing system for Harmony Farms in Brockville, Ontario as a part of the Praxis II Engineering design course
- Highest scoring design for this customer in Praxis II course

Point of Sale System | Toronto French School Parents Association

- Developed a JavaFX, JDBC and SQL based point of sale system, automating uniform sales for TFS Parents Association
- Increased efficiency and sales by 30%

ArtontheBrain | Baycrest Health Services

- Participated in the development of ArtontheBrain, a healthcare application which prevents cognitive decline in seniors by encouraging interaction with art and history

Summary of Skills

- Java, Python, C (Proficient, 3 Years)
- MATLAB (Proficient, 2 Years)
- HTML (Basic Working, 2 Years)
- Verilog, ARM Assembly (Basic Working, 1 Year)
- Slack, Click Up, Confluence (Proficient, 2 Years)
- Microsoft Office Suite (Proficient, 5 Years)
- Fusion360, GrabCAD (Basic Working, 2 Years)
- Fully Bilingual in English and French (Native Level)