

# Feng Hua Zhang

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## EDUCATION

### Concordia University (member of the Coop Institute)

*Bachelor's in aerospace engineering: Propulsion and Aerodynamics* (current GPA: 3.5)

-Relevant Courses: Mechanical Drawing, Technical Communication and Writing for Engineers.

Montreal, QC

Jan. 2025 – May 2029

### Collège de Bois de Boulogne

*DEC in pure and applied science*

Montreal, QC

Aug. 2022 – Dec. 2024

## EXPERIENCE

### Open House Tour Guide

*Collège de Bois de Boulogne*

2023-2024

Montreal, QC

- Presented programs and points of interest to more than 500 visitors.
- Tailored presentations to maximize audience engagement and address questions.
- Strengthened communication and pressure management skills while representing the college in a professional way.

### High School Computing Intern

*Queen's School of Computing*

June - Aug. 2022

Kingston, ON

- Applied software development tools and API integration for model creation and testing.
- Developed a machine learning model to analyze neuron imagery (Python, NumPy and Panda).
- Gained experience in data analysis and autonomous work under supervision.

## PROJECTS AND ACTIVITIES

### Projects and classwork from Mechanical Drawing for Engineers/ Concordia University

Sep. 2025-present

- Modeled multiple 2D technical drawings and 3D mechanical parts using AutoCAD and SolidWorks.
- Created assemblies with mechanical parts using SolidWorks.
- Gained experience in visualizing and drawing 2D technical drawings by hand

### Member of structures and composites team / Space Concordia Liquid Rocketry

Sep. 2025-present

- Learned to design the nosecone of the rocket for a 16-inch airframe using SolidWorks.
- Studied the importance of different nose cone shapes for aerodynamic application.
- Gained experience in project management and in CAD software (SolidWorks and NX)

### "Outlandish" Finalist of a Hackathon / NASA SpaceApps Challenge Montreal 2025

Oct. 2025

- Contributed to the development of an app with a simple interface to design 3D space habitats.
- Analyzed and extracted complex data from open databases to determine design parameters.
- Nominated among of the 7 out of 35 teams by the local jury to represent Montreal globally.
- Collaborated within a multidisciplinary student team to complete the design.

## VOLUNTEERING

### "BdeB Écoute"

*Collège de Bois de Boulogne*

2024

Montréal, QC

- Animated and led workshops for the "Bell Cause pour la cause", supporting mental-health awareness.
- Developed communication and active listening skills by offering services student well-being.

## SUMMARY OF SKILLS AND QUALIFICATIONS

**Programming languages:** Python, C++, HTML/CSS, Git

**Engineering software:** SolidWorks, AutoCAD, TinkerCAD, CATIA, MATLAB

**Microsoft Office Suite:** Excel, Word, PowerPoint, photoshop

**Certificates:** WHIMS for laboratory personnel, Hazardous Materials Disposal, Corrosive substances, nanomaterials handling

**Languages:** French (Fluent), English (Fluent), Mandarin (Fluent)

## AWARDS AND DISTINCTIONS

**RSEQ Academic Student-Athlete Award 2024: Volleyball D2**

2023-2024