



EDUCATION

Bachelor of Engineering
McGill University, Montreal, Canada

Major: Mechanical Engineering
Minor: Software Engineering

09/2019 – 05/2024

EXPERIENCE

ENBRIDGE PIPELINES

05/2022 – 08/2022

- Designed P&ID's, isometric diagrams, and electrical diagrams for a pump system
- Emergency-response plans, lockout / tagout systems

BOMBARDIER AVIATION – LOADS AND DYNAMICS

Created tools for predicting loads on aircraft wings and fuselage using numerical methods and machine learning:

01/2021 – 08/2021

- Automating and improving existing conceptual load design tools in Python
- Developing physical interpretations for load prediction results
- Formally presenting and documenting all work throughout each project while using Mercurial version control

MCGILL ROCKET TEAM (MRT)

09/2019 – 08/2021

- Completed a JavaFX UI designed for tracking specifications of the rocket from the ground-station
- Won the design award for the team's Hackathon 2020 event

STRATHMORE LANDSCAPING – TEAM LEADER

12/2017 – 08/2020

- Built positive relationships with clients, even in challenging circumstances
- Experience driving large Isuzu dump trucks, pickup trucks, and other vehicles
- Trained new employees

PROJECTS

Badminton Racket – Conceptual Design Project

09/2022 – 12/2022

- Fully designed a “Snap-On” badminton racket designed to minimize string changing time.
- Made use of product planning techniques such as a “house of quality” and “Pugh’s decision matrix”.

Structural Bracket – FEA Analysis and Structural Design

01/2022 – 05/2022

- A research and simulation project based in Abaqus to design a structural bracket while minimizing weight.

Bike Pedal Assembly - Manufacturing Project

09/2021 – 12/2021

- Designed a bicycle pedal assembly in SolidWorks, transformed to GCode using Mastercam, and then manufactured using 3D Printing, CNC milling and CNC turning.

Bicycle Assembly – Design for Manufacturing

09/2019 – 12/2019

- A CAD project designing a full bicycle prototype, using standards from McMaster-Carr.

SKILLS

ENGINEERING

CAD: SolidWorks, Solid Edge, Mastercam

FEA: Abaqus

MACHINING

Mastercam, G-Code, CNC Milling, CNC Lathing, 3D Printing

WHMIS, Class 5 License, Landscaping Equipment

PROGRAMMING LANGUAGES

Python: TensorFlow, Pandas, Seaborn, Numpy, Sphinx
Java: Software Development (specifics on demand)

Other: Matlab, Simulink, SPICE, LabView

LANGUAGES

English – Fluent

French – Conversational