

PROFESSIONAL SUMMARY

A third year McGill student majoring in mechanical engineering with a minor in software engineering, searching for internship opportunities for the summer of 2022. Visit my online portfolio using the QR code or link above.



EDUCATION

Bachelor of Engineering <i>McGill University, Montreal, Canada</i>	Major: Mechanical Engineering Minor: Software Engineering 3.54 / 4.00 CGPA	09/2019 – 05/2024
Pure and Applied Science <i>Marianopolis College, Montreal, Canada</i>		09/2017 – 06/2019

EXPERIENCE

BOMBARDIER AVIATION – LOADS AND DYNAMICS 01/2021 – 08/2021

Created tools for predicting loads on aircraft wings and fuselage using numerical methods and machine learning. This process included the following:

- 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 MRT's **Hackathon 2020** event

SKILLS

PROGRAMMING LANGUAGES	Python: TensorFlow, Pandas, Seaborn, Numpy, Sphinx Java: Software Development (see below)	Other: Matlab, Simulink, SPICE, LabView
SOFTWARE DEVELOPMENT	Version Control: Git, GitHub, Mercurial UML: Class / State / Sequence Diagrams Testing: Gherkin, Cucumber, Junit, Mockito, Postman Agile: Sprints, Issues, Milestones, etc. Framework: Spring	Web Design: Heroku, Netlify Front-end: JavaFX, HTML, CSS, JavaScript, Vue.js Databases: PostgreSQL, Heroku Build System: Gradle Code Generation: Umple
SOFTWARE	MS Office Suite, Google Suite	Windows 7 / 8 / 10 / 11 / XP / Vista
LANGUAGES	English – Fluent	French – Conversational

PROJECTS

“Storiko” – A Grocery Store Application – Full Stack Project	01/2022 – 05/2022
<ul style="list-style-type: none"> ➤ A web and Android Java-based application encompassing most aspects of software development listed above, including Agile methodology and Spring framework. https://grocerystore-frontend-123abc.herokuapp.com 	
Personal Websites	11/2021 – Present (Consistently maintenance)
<ul style="list-style-type: none"> ➤ A personal front-end portfolio based in HTML, CSS, and JS: https://samuelvalentine.netlify.app ➤ A volunteer front-end website based in HTML, CSS, and JS: https://gracechurchverdun.com/synergy 	
“ClimbSafe” – A Software Application Project	09/2021 – 12/2021
<ul style="list-style-type: none"> ➤ A Java-based application showcasing the power of Umple code generation, JavaFX, as well Gherkin, Cucumber, and JUnit testing. 	