SAMUEL VALENTINE

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EDUCATION

Bachelor of Engineering
McGill University, Montreal, Canada

Major: Mechanical Engineering
Minor: Software Engineering
3.54 / 4.00 CGPA

09/2019 – 05/2024

Pure and Applied Science
Marianopolis College, Montreal, Canada

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
➢ Developing physical interpretations for load prediction results
➢ Formally presenting PowerPoints and documenting all work throughout each project

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

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

06/2019 – Present

SYNERGY YOUTH MINISTRIES – YOUTH LEADER
➢ Created the website for the team at https://gracechurchverdun.com/synergy
➢ Weekly teaching, leading games, and organizing snack

SKILLS

Programming & Software Development	**Python:** TensorFlow, Sphinx, Pandas, Seaborn, Spyder **UML:** Domain Modeling, State Diagrams, Umple **VCS:** Git, Github, Mercurial		**Java:** Umple, Gherkin, JUnit, Cucumber, JavaFX **Web Design:** HTML, CSS, Javascript, Heroku, Netlify Other: Matlab, Agile, Simulink, Labview, SpringBoot
Languages	**English** – fluent		**French –** conversational
Machining	**CNC milling, CNC lathing**, **3D printing**, WHMIS, Class 5 driver's license, landscaping equipment		
Engineering Software	**Solidworks, Mastercam**, **Abaqus**, SPICE, Solid Edge, MS Office Suite, Google Suite, Windows 7/8/10/XP/Vista		