

Stella Vandewater

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EXPERIENCE

McGill Rocket Team

September 2025 – Present

Member

- Design and model manufacturing jigs and structural components using Siemens NX
- Collaborate on post-processing and assembly of carbon and glass fiber parts

YMCA of Metropolitan LA

May 2025 – August 2025

Day Camp Counselor

- Managed and coordinated groups of 12+ children (ages 4-11) in daily activities
- Mediated conflicts and communicated updates to parents

CERTIFICATIONS

SANS Institute

October 2023

GIAC Foundation Cybersecurity Certificate (GFACT)

Expires October 2027

PROJECTS

McGill Book Club Website

<https://mcgillbookclub.com/>

- Developed and deployed a club website using Vercel and Supabase to automate data collection and enhance member engagement.
- Replaced manual workflows with a centralized system, improving data accuracy and efficiency

Design Structures and Methods Robot

- Integrated a BrickPi controller with LEGO hardware to build an autonomous robot for mission-specific tasks
- Analyzed performance data from trial runs to optimize motor output and sensor accuracy, improving system reliability

EDUCATION

McGill University

Expected May 2028

BEng., Computer Engineering, B.A. East Asian Language and Literature

Montreal, QC

3.78 GPA

Relevant coursework: Electric Circuits 1 & 2, Digital Logic, ODE's for Engineers, Design Principles and Methods, Discrete Structures, Model Based Programming

SKILLS AND TOOLS

Programming

Java (Intermediate), Python (Basic)

CAD & Design

SolidWorks, Siemens NX

Development Tools

Git, Excel, Vercel, Supabase, Generative AI Systems

Languages

English (Fluent), Spanish (Conversational), Chinese (Conversational)

INTERESTS

Technical

Avionics and rocketry, PCB design, embedded systems, 3D printing

Personal

Soccer, language learning, film and theater, international media