

Thomas McKee

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Education

Bachelor of Science in Computer Engineering

Co-op/IIP Option

University of Manitoba

Expected Date of Graduation: April 2027

Cumulative GPA: **4.32**

Engineering Work Experience

Engineering Co-op Student

April 2024 - August 2024

Manitoba Hydro

Winnipeg, Manitoba

- Performed wind integration and battery analysis studies as part of a three-person team, using short and long-term production cost modeling software (PSR-NCP and SDDP) to assess future energy system scenarios and optimize resource dispatch.
 - Developed Python script utilizing libraries such as Pandas to automate the processing of simulation data as part of a wind integration study.
 - Authored a detailed technical report on wind integration, outlining previous and current methodologies, results, and future recommendations, and presented findings to department members.
 - Produced Microsoft Excel workbooks to extract simulated data and analyze capital expenditure for an HVDC transmission line feasibility study.
 - Created and presented battery analysis findings to colleagues across multiple departments, detailing the methodology, results, and recommended next steps to guide future project direction.
 - Participated in daily team meetings to discuss daily goals and report on project progress.
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Engineering Project Experience

Command and Data Handling

2023 - Present

University of Manitoba Space Applications and Technology Society

- Wrote low-level code for an STM32 microcontroller.
 - Wrote a driver to interface with an external SRAM IC over the SPI protocol, using a logic analyzer to debug communication issues.
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Work Experience

Server

June 2025 – October 2025

Olive Garden Family Restaurant
Winnipeg, Manitoba

- Provided friendly and efficient service in a fast-paced restaurant environment.
- Collaborated closely with kitchen staff and fellow servers to ensure smooth service.

Grocery Clerk

2019 - 2024

FreshCo Regent & Lagimodiere
Winnipeg, Manitoba

- Demonstrated strong problem-solving abilities by addressing customer service issues, resolving conflicts, and ensuring customer satisfaction.
- Held in charge of the store during shifts without managers on duty.
- Dealt with equipment failures by scheduling and coordinating work orders.

Additional Skills

Programming:	Python, Java, C/C++, MATLAB, Assembly, HTML, CSS, JavaScript
Tools & Software:	Git, KiCAD, FreeRTOS, PSR-NCP/SDDP, VS Code, MS Office Suite
Frameworks & Libraries:	PyTorch, Pandas, NumPy, React, Node.js, Tailwind CSS
Licenses:	Class 5 Driver's License

Memberships

Student Member, Engineers Geoscientists Manitoba

2023 - Present

Awards

Queen Elizabeth II Entrance Scholarship	2022
President's Scholarship	2023, 2024, 2025
Price Scholarship in Engineering	2024, 2025
Dean's Honour List, Faculty of Engineering	2023 - Present

Interests

Cycling, guitar, and electronics projects (breadboards and soldering)
