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: **4.29**

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 the 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

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
- Actively contributed to bi-weekly team meetings, providing project updates
- Wrote a driver file to communicate with an SRAM IC using SPI communication protocol

Work Experience

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

Server   **June 2025 - Present**

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

Additional Skills

Programming:	Java, Python, C, Assembly, HTML, CSS, JavaScript
Tools & Software:	Git, VS Code, KiCAD, PSR-NCP/SDDP, MS Office Suit
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**
Dean's Honour List, Faculty of Engineering	**2023 - Present**

Interests

Guitar, Cycling, Breadboard Projects