

# 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**

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

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## **Additional Skills**

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

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## **Memberships**

**Student Member**, Engineers Geoscientists Manitoba

**2023 - Present**

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## **Awards**

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

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## **Interests**

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

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