Tristan Haslett

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Education

McGill University Montreal, QC
Beng, Electrical Engineering | *CGPA 3.48/4* *Aug. 2022 – exp. Apr. 2025*
Fundamentals of Power Engineering, Electronics, Algorithms and Data Structures, Computer Organization
Microcontrollers, Microelectronics, Prop.Materials in Elec. Eng., Linear Systems and Control

Heritage College Gatineau, QC
DEC in Sciences | *R-score 31.227, 88% Average* *Aug. 2020 – May 2022*
Labratory Experience, Graduated with honors

Experience

Rivermead Golf Course Summer 2023 & Summer 2024
Line Cook *Aylmer, QC*
- Acted in accordance with food safety standards.
- Refined my communication and teamwork skills to maintain kitchen efficiency.
- Leaned how to work effectively in a high-pressure environment.

Bistro Vitalia June 2021 – November 2021
Line Cook *Aylmer, QC*
- See Rivermead Golf Course.

Projects

McHacks | *Python, HTML and CSS, Git* Jan 2023
- Developed a simple web application using with Flask along side 3 teammates over a 24 hour period.
- Implemented a rudementary search algorithm to search a database.
- Used cohere AI API to generate template data for a database.

BrickPi3 Delivery Robot | *Python, RaspberryPI, Git, Gantt charts, Project management* Jan 2023 – Apr. 2023
- Developed, designed and implemented a color-sensing algorithm using BrickPi 3 and LEGO components to enable accurate navigation for the delivery robot.
- Performed duties as Testing Lead, conducting comprehensive tests on various robot systems, including navigation, sensor integration, and motor controls while providing relevant documentation.
- Collaborated with a team of five students to integrate hardware and software components, troubleshoot issues, and refine the robot's performance.

Capstone Design Project: MRI Data Processing Pipeline | *Python, MATLAB, Git* Jan. 2025 – Present
- Designed and implemented a modular pipeline for the preprocessing and quantitative fitting of MRI data to extract meaningful tissue parameters.
- Developed visualization tools to highlight regions with poor goodness-of-fit, enabling easier quality control of results.
- Optimized pipeline stages for performance and reproducibility, incorporating version control and documentation for team-wide use.
- Collaborated with a team of students to integrate signal processing methods, statistical modeling, and validation workflows into a unified system.

Clubs and Extra circulars

McGill Robotics team: *Drone design Group* Sept. 2024 – July. 2025
- Electrical sub-division.
- Design of Motor thrust and power test setup

McGill Intramural Volleyball Sept. 2023 – Present

Technical Skills

spoken languages: English (native), French (fluent)
Programming Languages: Arduino, Assembly, C/C++, Java, Latex, MatLab, Python
Developer Tools: Arduino IDE, Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Jupyter Notebook