

Jeremy Langner

Software Engineering Student

📞 705-345-3062 • ✉ jlangner@mcmaster.ca • 🌐 jeremy-langner • 📧 jlangner15

Skills

Programming Languages: Java, Python, C, SQL, HTML, CSS, Golang, bash, Git

Technologies and Frameworks: Version control, Unit testing, Linux/Unix, DBMS, Flask, STM32, IDEs

Soft Skills: Collaboration, Communication, Responsibility, Integrity, and Problem Solving

Education

McMaster University

Hamilton, ON

Software Engineering CO-OP Level III,

September 2019 - Present

Academic Achievements: Deans Honour Roll and Top 15% of Engineering I, Presidential Entrance Scholarship

GPA: 3.7/4.0

Related Coursework: Principles of Programming, Data Structures and Algorithms, Software Design I, Discrete Math

Technical Experience

McMaster Formula Electric

October 2020 - Present

Software Developer

- Developed testing interface modules to analyze live data transfer between a Raspberry Pi and an accelerometer to confirm hardware functionality.
- Modules implemented with Python to utilize Raspberry Pi's SPI, I2C, and Uart serial communication ports.
- Followed a rigorous and agile modern software development plan and execution.
- Formal practices included: Requirements outline, design specification, formal outline, UML diagrams, followed proper coding practices, rigorous testing, and regular code reviews.

Back to Hacking 2021

November 2021

Virtual Hackathon Participant

- Worked with a novel team formed at the virtual event to create a functioning web application within 48 hours.
- The web application takes user input and checks for balanced parenthesis from an uploaded file or string input.
- Designed the back end of the web application using Flask, Python, and a database library SQLAlchemy.
- Aided with the front end development with html to integrate the front end with the back end.

McMaster Engineering Competition

November 2019/2020

Finalists

- In 2020, collaborated virtually to create a series of independent Rudy Goldberg machines and formally present each system with a focus on virtual communication and presentation.
- In 2019, worked alongside 3 peers to plan, build and present a physical device designed to solve a client's problem while ensuring timing and budget constraints are met.

Physical Mouse Attachment

September 2019 - December 2019

Engineering Practice and Profession Academic Project

- Designed and built an ergonomic mouse attachment prototype for a client with impaired mobility for personal use.
- Collaborated with 3 members to brainstorm, plan, model, develop prototypes and construct a final prototype presented to Professors.

Work Experience

Simcoe County

May - September 2020/2021

Roads Dept. Student

Ramara, ON

- Demonstrated strong responsibility and task management skills for extended construction projects while always following proper safety protocols and on time to ensure a satisfactory end result.
- Constant improvement of collaboration skills via close work with co-workers, local homeowners and travellers.