

# Jeremy Langner

Software Engineering Co-Op Student, Level III

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**GitHub:** <https://github.com/jlangner15>

## EDUCATION

**McMaster University, Hamilton, ON** - *Bachelor of Software Engineering*

**September 2019 - Present**

- Achieved a cumulative GPA of 3.7 /4.0 and recipient of Dean's Honour Roll
- Received McMaster President's Entrance Scholarship for 95%+ entrance average
- Received an Invitation to Golden Key Society for having a cumulative gpa within the 15% of Engineering Level 1 program

### Relevant Courses Completed

Principles of Programming

Software Design I

Discrete Mathematics I/II

Data Structures and Algorithms

Computer Architecture

Digital Systems and Interfacing

## PROJECTS

**Software Developer for MAC Formula Electric**

**November 2020 - Present**

- Working with a small team to develop specific testing interface modules for on board Raspberry PI data transfer specifically with an accelerometer using serial communication guidelines and protocols( SPI, i2c, UART).
- Follow a rigorous and agile modern software development plan and execution with fundamental Software Development requirements. Such requirements include requirements outline, design specification, formal outline, UML diagrams, coding practices, testing and maintenance and code review routines.

**Web-Scraping Personal Project**

**September 2020**

- Developed a web-scraping Python script utilizing BeautifulSoup4 library to aid personal and academic interests that search all of Wired's online articles for a specific author or keyword efficiently
- Demonstrated essential Python knowledge with nested loops, conditionals, functions, parameter passing
- Experience with HTML5 page structure and syntax to effectively search specific contents on a webpage

**Engineering Practice and Profession Academic Project**

**September 2019 - December 2019**

- Group project consisting of 4 members to brainstorm, develop prototypes and construct a final prototype to fulfil client's requirements and present to a panel of Professors and Teaching Assistants
- Used Autodesk Inventor, 3D printer and hand tools to create a fully functional prototype on time and budget

## TECHNICAL EXTRACURRICULARS

### McMaster Engineering Competition Finalist

October 2020

- Effectively collaborate with group members virtually to create and present a deliverable presentation showcasing individually created Rudy Goldberg Machines
- Present to a panel of judges via Zoom to present both technical and non technical ideas of such machines with a focus on online interaction and communication

### McMaster Engineering Competition Finalist

November 2019

- Effectively analyzed a client's problem statement to plan and construct a physical prototype to meet client's specifications while satisfying key objectives such as cost and material minimization within a time constraint
- Increased time management, collaboration and problem solving skills while working in a group of 4

## WORK EXPERIENCE

**County of Simcoe, Ramara ON** - *Roads Department Student Labourer*

**June 2020/2021 - August 2020/2021**

- 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 fellow co-workers, local homeowners and travellers throughout Simcoe County

**McDonald's Restaurants, Orillia ON** - *Crew Member*

**April 2016 - August 2019**

- Developed strong communication and interpersonal skills while serving guests
- Strengthened immediate problem skills through guest interactions to properly handle and inquiries or issues

## PROGRAMMING SKILLS

- Python
- Java
- C
- SQL
- Git
- LaTeX
- Markdown
- Bash
- Assembly(64bit- NASM)
- HTML
- CSS
- Matlab

## TECHNOLOGIES

- Unix/ Linux environment
- Github
- GitLab
- STM32Cube IDE
- JetBrains IDE
- Visual Studio
- Google Suite