

# Caylia Bonnick

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🔗 <https://github.com/cayliab03>

## EDUCATION

### McMaster University

09/2021 – 04/2025

Pursuing a bachelor's degree in Electrical Engineering

## TECHNICAL SKILLS

### Programming Languages

Python, C/C++, CSS, JavaScript, HTML, MATLAB, R, Verilog, VHDL

### Tools

GitHub, Hubspot, Visual Studio Code, Eclipse IDE, R Studio, Analog Discovery 2, Autodesk Inventor, Raspberry Pi, Microsoft Office, ORCAD PSpice, Quartus II

### Equipment Expertise

Breadboard, Oscilloscopes, Digital Multimeters, Signal Generators, Function Generators, Voltage and Current Probes, Integrated Circuits

### Spoken Languages

Fluency in English and French

## EXPERIENCE

### McMaster Deep-space Analogue Research Expedition (DARE)

09/2023 – present

*Logistics and Marketing Team Member*

- Planning engineering research expeditions to areas simulating the conditions of a chosen planetary location in deep space
- Finding sponsorship as well as managing lodging and travel requirements

### McMaster Women\* in Science and Engineering (WISE)

11/2022 – Present

*Crest Research & Conference Executive Director*

- Spearheading the “Current Research in Engineering, Science, and Technology” annual regional conference
- Hosting the “GenerationSTEM” workshop with panels, research presentations, and lab tours for female high school and undergraduate students interested in pursuing a degree in STEM as well as providing networking opportunities

### Real Canadian Superstore

10/2019 – 08/2023

*Joe Fresh Sales Associate*

- Ensuring all customers receive excellent service through courteous salesmanship, and prompt service. Maintaining a **100% positive** customer and employer feedback score
- Recently assigned to “Ship from Store” service based on efficiency and ability to perform well under pressure. This position entails handling sales, shipments, and returns through a POS software system

## PROJECTS

### Bend Your FootPrint

*Elle Hacks*

- Developed a website with an embedded python-coded quiz with a team in 36 hours
- Utilized Hubspot CRM, HTML, and JavaScript to make the website interactive and styled using CSS to implement easy navigation for users

### Portable Game Console

- Built a portable game console using a Raspberry Pi 4 and Retro Pie, a classic video game emulator
- Used a hard case to house the console and a power bank to supply portable power and connected a bluetooth controller as well as a monitor to the Raspberry Pi
- Flashed Retro Pie onto a microSD card and installed game ROMs

### Personal Website

- Created a static website hosted on GitHub Pages with files written in HTML, CSS, and JavaScript
- Showcases my experiences, projects, and achievements
- Uses Google Sheets to receive contact from clients

### Sorting Robot

*Associated with McMaster University*

- Used Python to program a recycling robot to sort, transport, and deposit containers made of different materials to their corresponding recycling bins in the Quanser Interactive Labs interface
- Used a colour sensor to ensure each container was properly identified and deposited into the correct bin
- Used an infrared sensor to have the robot follow a leading line around the track