# **Caylia Bonnick**

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https://github.com/cayliab03

# **EDUCATION**

**McMaster University** 

Pursuing a bachelor's degree in Electrical Engineering and a minor in Music

# **TECHNICAL SKILLS**

### **Programming Languages**

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

#### **Equipment Expertise**

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

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# Tools

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

#### **Spoken Languages**

Fluency in English and French

EXPERIENCE	
<ul> <li>Procter &amp; Gamble</li> <li>Process &amp; Manufacturing Engineer</li> <li>Leading investigation into cause for ultrasonic welding failure in non-woven material, testing hypothesis, and recommending solution</li> <li>Improving consistency in bag sizes and using product data to predict bag size data</li> <li>Supporting digital quality using artificial intelligence and machine learning to digitize current business methods</li> </ul>	05/2024 – Present
<ul> <li>McMaster Women* in Science and Engineering (WISE)</li> <li>Crest Conference Operations Executive Director <ul> <li>Spearheading the "Current Research in Engineering, Science, and Technology" annual regional conference</li> <li>Along with a team, organized keynote address, panels, workshops, and research presentations</li> <li>Facilitating interdisciplinary networking for students, postdocs, and faculty</li> </ul> </li> </ul>	11/2022 – Present
<ul> <li>Real Canadian Superstore</li> <li>Joe Fresh Sales Associate <ul> <li>Ensured all customers receive excellent service through courteous salesmanship, and prompt service. Maintaining a 100% positive customer and employer feedback score</li> <li>Assigned to "Ship from Store" service based on efficiency and ability to thrive under pressure</li> <li>Handled sales, shipments, and returns through a POS software system</li> </ul> </li> </ul>	10/2019 – 04/2024

## PROJECTS

## Microprocessor Systems Project @

Associated with McMaster University

- Built a device that scans surroundings and uses serial communication to create a 3D rendering of a room
- Used a ToF Sensor, a Microcontroller, and a PC to collect, send, receive, interpret, and visualize measurement data
- Wrote C++ code to receive and transmit data to the PC and a Python code to store received data, used Open3D for data visualization

## Bend Your FootPrint &

**Flle Hacks** 

- Developed a website with an embedded python-codded guiz 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

## 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

09/2021 - 04/2026