

Experience

Firmware Engineer – Simply Embedded

- **Total Employment Period:** January 2021 - May 2024
- **Full-time Employment:** July 11, 2022 - May 24, 2024
- **IoT Wearable Project:**
 - Network Connectivity: Addressed challenges with diverse cellular operators, especially network time and instability issues in the UK.
 - Testing Automation: Created a self-testing system for PCBA peripherals, automating device commissioning and ensuring readiness for shipment.
 - Azure Debugging: Used Azure and Python scripts to improve cloud-driven UI testing, developing extensive test cases with ChatGPT.
 - Team Collaboration: Coordinated with management and a global team across time zones.
 - Time Management: Delivered prototype hardware under tight deadlines.
 - Remote Collaboration: Used Jira, Bitbucket, and Jenkins for agile project management, version control, and continuous integration.
- **Mentorship:**
 - Interviewed candidates for firmware internship position, mentored successful candidates: Moaz, Heidi, and Issam
 - Interviewed candidates for firmware internship position, mentored successful candidate: Mai: April 6, 2023 - April 13, 2023
- **Project Management:**
 - Smart Energy Metering Project: January 24, 2022 - May 1, 2022
 - Long-Range RFID Project: November 1, 2022 - March 1, 2023
 - Avatar2: A Multi-target Orchestration Platform: March 30, 2024 - May 24, 2024
- **Trade Show Sales:**
 - IoT North Conference 2023: November 15, 2022 - November 16, 2022
 - CES 2023: January 4, 2023 - January 9, 2023
 - CES 2024: January 7, 2024 - January 13, 2024
- **Business Trips:**
 - Timisoara, Romania: January 20, 2023 - January 29, 2023
 - England (London and Epworth): December 10, 2023 - December 16, 2023

Retail Sales Staff - Camper's Village

- May 1, 2014 - July 1, 2021
- **Customer Assistance:** Assisted customers in purchasing outdoor hard goods, from personalized multi-hour outfitting to quick assistance finding items.
- **Product Knowledge:** Utilized product information provided by brands and representatives to offer detail-oriented assistance.
- **Sales Goals:** Leveraged personal passion for hiking to develop strong customer relationships, consistently surpassing sales goals.

Education

University of Calgary

Bachelor of Science in Computer Science

GPA: 3.49/4.00 May 2018 - May 2022

- **President, Computer Science Undergraduate Society**
 - September 1, 2020 - February 1, 2021
 - Coordinated a remote-first event with over 700 participants, awarding \$15,000 in prize money.
 - Adapted Event Format: Successfully pivoted from in-person to remote format, utilizing Discord for enrollment and communication.
 - Efficient Judging Coordination: Managed the judging of 93 groups via Zoom within 2 hours with a meticulous plan.
 - COVID-19 Navigation: Successfully navigated society activities and stakeholder communications through pandemic challenges.
 - Hackathon Link
- **Undergraduate Research Project in Theoretical Computer Science**
 - September 1, 2021 - April 1, 2022
 - **Supervised Research:** Collaborated with Dr. Michael J. Jacobson on computational number theory, focusing on the statistical properties of Aliquot sequences.
 - **High-Performance Computing:** Utilized 800GB of RAM and 80 threads on the university's bigmem research cluster to compute.
 - **Algorithmic Improvements:** Implemented memory compression, enabling higher bounds in numerical computations.
 - **Cluster Management:** Managed multi-day jobs on a research cluster using the SLURM scheduler.
 - **Project Documentation**