Emily Wiseman

Computer engineering student, Memorial University of Newfoundland

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SUMMARY OF QUALIFICATIONS

I am a demonstrably, enthusiastic and quick learner eager to work in embedded software. I have a year of work term experience as a **full-stack web developer** and following **agile practices**. My backend development experience includes **Angular**, **Vue**, and **Django**. I have developed in **C**, **Python**, **JavaScript**, **TypeScript**, and **HTML** and have experience working in **C++** through University. My work term experience also includes developing a **VxWorks IoT** device simulator and sanity testing VxWorks labs. I have a strong work ethic, a professional attitude, and I can adapt to new challenges.

WORK EXPERIENCE

Curtiss-Wright Defense Solutions, Kanata ON
Software Developer Intern
September 2019 – December 2019

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Wind River Systems, Kanata ON
Web Developer (Information Development Team)
January 2019 – April 2019

- Designed and implemented a full-stack web application following agile development practices, which pulled data from several sources
- Created a Python website backend that queried Wind River's Jira server and processed issue tracking data using Jira's Python API
- Created RESTful endpoints using the Django backend framework
- Quickly ramped up with an Eclipse-based DITA tool to resolve a key customer-facing issue within a large documentation set for a major product release.

January 2018 – August 2018

- Completed and presented a competitive analysis of cloud services (IBM Cloud, AWS Cloud, and Microsoft Azure) for Wind River IoT products. The competitive analysis presented product management with industry best practices for IoT cloud onboarding.
- Prototyped a device weather simulator using VxWorks as a proof of concept for a Wind River IoT product's new user-onboarding process
- Created a Python application for Information Development management to transfer and parse data to a Microsoft Excel spreadsheet
- Designed and built a web interface using Flask and jQuery for the Jira Scraper tool used by product management to track content development times

- Used Angular to improve the frontend of Wind River's Product Availability Matrix website. This improvement allowed Wind River staff to retrieve operations information for course delivery more reliably.

Women in Science and Engineering Newfoundland (WISE NL), St. John's NL
Education Coordinator
March 2017 – June 2017 & August 2017 – October 2017

- Planned and organized WISE NL's 2017 Remotely Operated Vehicles (ROV) webinars as part of Canada's Science Odyssey week and Science Literacy week
- Created detailed project reports for the 2017 ROV webinars for event sponsors
- Recruited rural NL schools to participate in the ROV webinars
- Oversaw and managed the operating and expenditures budget
- Created flyers and displays advertising the ROV webinars

Occupational Health and Safety (OHS), Standards and Regulatory Review, St. John's NL
Records Management Assistant/ Receptionist
July 2016 – August 2016

- Assisted in the upkeep of the OHS registry
- Performed data entry and upkeep of the work place accident database
- Digitalized physical records for archival

Memorial University of Newfoundland Faculty of Engineering and Applied Science, St. John's NL
Research Assistant
June 2015 - August 2015

- Conducted research on the Sphero robot's applications in Swarm robotics
- Wrote and presented a research paper describing applications of the Sphero robot in swarm robotics (See conference presentations and publications)

EDUCATION

Bachelor of Computer Engineering (Co-op Program), Memorial University of Newfoundland
Expected Grad. 2022

AWARDS & SCHOLARSHIPS

- Memorial University of Newfoundland Endowment Fund Scholarship (2016)
- City of Mount Pearl Science Technology Engineering and Math Award (2015)

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CONFERENCE PRESENTATIONS & PUBLICATIONS

Wiseman, E., Vardy, A. (2015), "Detecting Collisions on the Sphero Robot," 24th Annual Newfoundland Electrical and Computer Engineering Conference (NECEC)