Emily Wiseman

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SUMMARY OF QUALIFICATIONS

I am a demonstrably, enthusiastic and quick learner, eager to take on new challenges. I have completed work terms in **Web development** and **DevOps**. Through my web development work terms, I have worked with **Angular**, **Vue.js**, and **Django**. While working in DevOps I used **Jenkins**, **Virtual Machines**, and created command-line scripts (**Shell** and **BASH**). I have work experience developing in **Python, Type Script, Java Script,** and **C** and have experience working in **Java** and **C++** through University. Much of my work experience has been in **Agile development**. I have a strong work ethic, a professional attitude, and I can adapt to new challenges.

PROFESSIONAL EXPERIENCE

CURTISS-WRIGHT, KANATA ON
SOFTWARE DEVELOPER INTERN (September 2019 – December 2019)
Preformed Development Operations (DevOps) and manual testing as part of Curtiss-Wright's test automation team. DevOps duties included creating design requirements, utilizing Jenkins, JIRA, and Bitbucket to streamline operations, and

- Spearheaded Static Analysis Testing integration into the Curtiss-Wright Linux BSP development lifecycle. This translated into
- Designed a REST API, using Python, to broker requests between Jenkins Pipelines, Bitbucket, and Linux Virtual Machines. This API solved a significant design challenge involving the incompatibility of existing software.
- Authored a software design document (SDD) for Curtiss-Wright upper management outlining the design requirements, implementation plan, and importance of the project
- Created command-line scripts (Shell and Bash) to simplify the day to day use of Static Analysis Software used by Curtiss-Wrights. This enabled developers to use the tool with little to no ramp-up time.
- Performed manual testing on Curtiss-Wright ruggedized boards, running Wind River VxWorks, thoroughly and on time to ensure a Curtiss-Wright BSP product met its release date.

WIND RIVER SYSTEMS, KANATA ON
WEB DEVELOPMENT INTERN (January 2019 – April 2019)
Developed a full-stack web application and assisted the Technical Publications team. The web application was built using the Python backend framework, Django, to host RESTful endpoints, process data from JIRA, and query a Postgres Database. The frontend of the website was created using the JavaScript framework Vue.js.

- Designed and implemented a full-stack web application, following agile development practices, which pulled data from several sources and displayed it on a dynamic dashboard. This allowed management at Wind River to quickly view, filter, and save project statistics.
- 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.

WIND RIVER SYSTEMS, KANATA ON

TECHNICAL PUBLICATIONS INTERN (January 2018 – August 2018)

Assisted the Wind River Helix Device Cloud team in improving user onboarding practices and developed management tools for Wind River's Technical Publications group.

- 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
- Improved the frontend of Wind River's Product Availability Matrix website using Angular (a JavaScript front-end framework). 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 executed two webinars for Canada's Science Odyssey and Science Literacy weeks on behalf of Women in Science and Engineering Newfoundland (WISE NL). Duties included recruiting schools, creating flyers, event organization, and acting as a liaison between members of the Marine Institute, the Newfoundland school district and the Centre for Innovation in Teaching and Learning (MUN CITL).

- Oversaw and managed an operating and expenditures budget of $7, 000
- Organized and executed 2 webinars with an audience of 30 students
- Authored two event reports for event sponsors and WISE NL's council

MEMORIAL UNIVERSITY OF NEWFOUNDLAND FACULTY OF ENGINEERING AND APPLIED SCIENCE, ST. JOHN'S NL

RESEARCH ASSISTANT (June 2015 - August 2015)

Student research position with Memorial University of Newfoundland's Swarm robotics research group. Researched the capabilities of the Sphero's, a spherical open-source robot, in swarm robotics using JavaScript.

- Co-authored and presented a research paper describing applications of the Sphero robot in swarm robotics (See conference presentations and publications)

AWARDS & SCHOLARSHIPS

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

CONFERENCE PRESENTATIONS & PUBLICATIONS

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