

Emily Wiseman

Third-year Computer Engineering Student

Work Experience

Curtiss-Wright / Software Developer Intern

SEPTEMBER 2019 – DECEMBER 2019, KANATA ON

- 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 / Web Development Intern

JANUARY 2019 – APRIL 2019, KANATA ON

- 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 / Software Intern

JANUARY 2018 – AUGUST 2018, KANATA ON

- 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.

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Most Proud of

**Memorial University of
Newfoundland Endowment Fund
Scholarship**

90% High School graduation
average

**Publication in the 24th Annual
Newfoundland Electrical and
Computer Engineering Conference
(NECEC)**

Wiseman, E., Vardy, A. (2015),
"Detecting Collisions on the Sphero
Robot"

**City of Mount Pearl Science
Technology Engineering and Math
Award (2015)**

Education

**Bachelor of Computer Engineering
(Co-Op Program), Memorial
University of Newfoundland**

EXPECTED GRAD. 2022

Skills

Web Development: JavaScript •
TypeScript • CSS • HTML • React •
Angular • Vue.js • Django •
PostgreSQL

Languages: Python • Java • C/C++ •
Shell Script • Bash Scripting •
JavaScript • TypeScript

Tools: Jenkins • Git • Jira •
Bitbucket