

Emily Wiseman

Third-year Computer Engineering Student

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EXPERIENCE

Curtiss-Wright, 📍 Kanata ON – Software Developer Intern

📅 SEPTEMBER 2019 – DECEMBER 2019

Spearheaded **Static Analysis Testing** integration into the Curtiss-Wright Linux BSP development lifecycle using DevOps best practices.

- 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-Wright. 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, 📍 Kanata ON – Web Development Intern

📅 JANUARY 2019 – APRIL 2019

Developed a full-stack web application and assisted the Technical Publications team.

- 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, 📍 Kanata ON – Software 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 Technical Publications management to transfer and parse data to a Microsoft Excel spreadsheet
- 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.

AWARDS & ACHIEVEMENTS

🎓 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)

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

EDUCATION

Memorial University of Newfoundland, Canada – Computer Engineering (CO-OP)

EXPECTED GRAD. APRIL 2020