

Chang Qiu

Software Engineer & QA

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Work experience

Software Engineer & QA

2018 - 2019

Vapor Rail, A Wabtec Company

Engineer in the core team of The Ottawa Project, and ensure successful completion of SIL2 certification; engineer in the core development team in the MBTA project.

Collaboration with hardware team in designing and developing high performance, stable, and fully customized Door Control Unit.

Enhance test cases and perform in an efficient, and automated time domain.

Ensure smooth operation workflow in scrum pipeline and git workflow.

Intake and analysis customer expectation into project requirements.

Collaboration with requirement engineer to finalize the test specs workflow.

Strictly verification to confirm and unit test the code quality to meet the design spec with industry standard code validation tool.

Accomplishments:

Successfully delivery of The Ottawa Project with SIL2 certification.

Feature complete in the development phase of MBTA Project.

Key Skills

IOS development with UIKit, MapKit and CoreLocation.

JavaScript, HTML5 , and CSS3.

Data analyzation and model creation with Matlab, R and Simulink.

Database management using MySQL.

Statistical computing and data visualization with R.

HDL such as Verilog.

Object-oriented programming with JAVA.

C++ development.

Optimization methods for finding the best solutions to complex practical problems.

Analyzing and design electrical circuit.

Reference

Mr. Marc Lanoue -- Engineering Product Manager

Vapor Rail, A Wabtec Company

"I've been consistently impressed by her organizational skills and grace as well as focus under pressure. She strives to achieve her objectives and deliver on time, showing a capacity to learn quickly in a fast-paced environment."

Volunteer Experience

Note-taking

2017

Note takers through the Paul Mental Center for students with disabilities while taking other five courses and managed time efficiently and reasonably.

Volunteer

2017

Guided guests to their destination to listen to the conference for Photonics North Conference 2017 in Ottawa and lead to a success.

Translation

2015

Translated Regina University's orientation from English to Mandarin introducing the university's expo and application process resulted in a better understanding for audiences who speak Chinese and a success in the orientation.

Personal Projects

IOS development

Designed and Developed and IOS app to share user GPS location.

Personal Website

Designed and developed personal website with JavaScript, HTML5 and CSS.

PCB design and development

Designed and developed USB controller with Arduino.

Game development

Designed and developed web game using JavaScript.

Education

Carleton University

Bachelor of Engineering,
Electrical, Co-op
2015-2021