
CHANG QIU

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Software Engineer & QA

Work experience

2018 - 2019

Software Engineer & QA

Vapor Rail, a Wabtec Company – Montreal, QC

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.

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.

Smooth operation with git workflow.

Accomplishments:

- Successfully delivery of The Ottawa Project with SIL2 certification.
- Feature complete in the development phase of MBTA Project.

Reference

Mr. Marc Lanoue -- Engineering Product Manager

Vapor Rail, A Wabtec Company

"She's organized, result-oriented, effective, and committed to getting the job done. 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."

Mr. Xue Dong -- Embedded Software Developer

Vapor Rail, A Wabtec Company

"Chang is a very nice person to work with. During the time she worked with team, she showed very strong skills to learn new technologies and proved that she was able to cope with not only technical problems but also inter-people relationship in the daily work."

Personal Projects

IOS application

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 developed in CSS animation and JavaScript

Designed and developed web game using JavaScript.

Key Skill

Knowledge of IOS development with UIKit, MapKit and CoreLocation.
Knowledge of JavaScript, HTML5 , and CSS3.
Knowledge of data analyzation and model creation with Matlab, R and Simulink.
Knowledge of database management using MySQL.
Knowledge of statistical computing and data visualization with R.
Knowledge of HDL such as Verilog.
Knowledge of object-oriented programming with JAVA.
Knowledge of C++ development.
Knowledge of optimization methods for finding the best solutions to complex practical problems.
Knowledge of analyzing and design electrical circuit.

Education

2015 - 2021	Bachelor of Engineering, Electrical, Co-op <i>Carleton University</i>
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