**Marc Lanoue**

Engineering Product Manager – Faiveley Vapor Rail (a Wabtec Company)

To whom it may concern,

I’m writing to recommend **Chang Qiu** who has been a trainee for a period of twelve consecutive months within two of my development teams responsible of developing and validating electronic controllers used in the railway industry (metro, tramway, regional trains, high-speed trains). She has worked six months as part of the V&V (Verification and Validation) team, another six months as part of the Software development team. And, I must say I’ve been consistently impressed with her efficiency, adaptability, serious she’s shown in all mandates given to her, and abilities to get things done.

As part of a first mandate, Chang has rapidly jumped into verification and validation tasks on a project to get approved by customer within few months. In this role, she had to rapidly understand the requirements to validate, adapt test plans, create test reports, as well as organize and execute tests on a validation rig. Having to work in an Agile method with strict safety related specifications (mainly IEC EN50128 and CMMI Level 2) to respect, Chang has shown great skills to rapidly adapt to the working environment and taking ownership of the concerned validation activities and documentation to get approved.

As part of a second mandate within the Software development team, Chang has had to fulfill various mandates going from creating requirements and definition documents, adapting Software Requirements Specifications, extending Software Detailed Design documents, to correcting software issues/bugs in various modules, doing code reviews/MISRA checks/unit tests, and inspecting documents as required by IEC EN50128 specification. Here again, Chang has shown great skills to rapidly adapt to new mandates tied to a project which was priority number one within the company.

These two mandates have given her the opportunity to be part and contribute directly to the development of electronic controllers in a complete ‘V’ cycle model. And, Chang has asked for little supervision once she had a clear understanding of the objectives to be achieved. She’s been a reliable asset in both teams.

I recommend Chang who would be an excellent addition to many engineering activities. 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.

Please feel free to contact if you have any questions or would like clarifications.

Sincerely,

***Marc Lanoue***

Engineering Product Manager – Electronic Controllers

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