Le Cong KHANH

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# Working Experience

**November 2015 – Present**

**RENESAS Design Vietnam Co., Ltd.**

Software Coding Engineer

Coding and testing of a Code Generation Frame-work for co-simulation between Mathworks/Simulink and RENESAS’s MCUs.

Programming languages: Python, Java, C#, C/C++, MATLAB.

Co-operating in a project with 6 members. Have solid understanding of SDLC from Requirement Gathering Analysis, Design, Coding, to Verification under CMMI model.

Published information about my work:

[https://www.renesas.com/eu/en/products/software-tools/tools/model-base-development/embedded-target-for-rh850-multicore.html#productInfo](https://www.renesas.com/eu/en/products/software-tools/tools/model-base-development/embedded-target-for-rh850-multicore.html" \l "productInfo)

<https://www.renesas.com/us/en/about/press-center/news/2018/news20180614.html>

# Education

**2011 to 2014 CTU - Cantho University**   
BSc. in Mechatronics Engineering  
GPA: 2.9/4.0, 7.25/10.

# Software Skills

**Intermediate** Python, Java,

**Basic Level** C#, C/C++, MATLAB, MySQL, AutoHotKey

# Communication skills

**Vietnamese** Native

**English** L/R: Advanced; S/W: Good

# Work Product

**Code Generation Frame-work**

MATLAB supports generating source code directly from Design (diagram) on Simulink. But generated source code is general-purpose C/C++ source code, it lacks some features of RENESAS’s MCUs. So we built a framework using **C++, C#, and MATLAB** to generate source code and do necessary configuration.

**Automation Testing and Reporting tool**

During the development, we have a regression test tool. It executed everyday to ensure there is no bug cause by the modifications.

The overall controlling and reporting tool was built by **Java Spring MVC**. It simulates user’s operations on Windows by calling executable tool written on **AutoHotKey** language. And some communication code with RENESAS’s software using Python. Everyday we can check test-result-report by enter application address on web browser (only local network).