

# Le Cong KHANH

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## WORKING EXPERIENCE

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**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/us/en/about/press-center/news/2018/news20180614.html>

## EDUCATION

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2011 to 2014: **CTU - Cantho University**

BSC. IN MECHATRONICS ENGINEERING

GPA: 2.9/4.0, 7.25/10.

## SOFTWARE SKILLS

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**INTERMEDIATE** Python, Java,  
**EXPLORABLE** C#, C/C++, MATLAB, MySQL,  
AutoHotKey

## COMMUNICATION SKILLS

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**VIETNAMESE** Native  
**ENGLISH** L/R: Advanced; S/W: Good

## WORK PRODUCT

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### 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 the report by enter application address on web browser (only local network).