Le Cong KHANH

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# Education

**BS** Cantho University (Vietnam), Mechatronics Engineering 2011 to 2015

Graduated with a pretty good GPA

# Summary Working Experience

**Renesas Design Vietnam Co. Ltd.**  2015 to 2018

Renesas Design Vietnam Co., Ltd. is a wholly owned subsidiary of Renesas Electronics Corporation (a Japanese semiconductor manufacturer). It has designing hardware and software for wide range of semiconductors.

\* This is where I started my career.

* 2017 to 2018: Project Leader of Model Based Design Tool (MBD) project
* 2016 to 2018: Design Engineer of MBD project
* 2016 to 2018: Coding Engineer of MBD project
* 2015 to 2018: Testing Engineer of MBD project

# Computer Skills

**Programming languages**:

* C/C++, Java
* Python, MALAB, Ruby
* HTML, CSS, Javascript, jQuery

**Environments**:

* Windows
* MATLAB & Simulink
* Embedded
* Web

**Microsoft’s technology**:

* Visual Basic for Excel

# Working Experience

**Renesas Design Vietnam Co. Ltd** 2015 to 2018

Project Leader of MBD project 2017 to 2018

* Lead a project with 6 members and in charging of all technical works; doing plan for development schedule, monitoring QA/QC activities. Solid knowledge in conducting full SDLC under CMMI standard. Be a mentor to support new engineers.

Design Engineer of MBD project 2016 to 2018

* Apply various Design Patterns: Template, Hook, Singleton, Strategy, etc.
* Used tools:
  + Enterprise Architect
  + Star UML
  + Microsoft Visio

Coding Engineer of MBD project 2016 to 2018

* Develop an automatic code generation environment for Multicore Model-Based Development Framework on Renesas’s MCUs by C/C++11, Python, and MATLAB/Simulink.
* Bring up boards without OS on various 16-bit & 32-bit Renesas MCU devices (e.g. RH850, RL78, RX, etc.) by asm code. Developing resource management library for RH850 Multicore devices in many-core applications on both Renesas Compiler and GHS Compiler.
* Knowledge of Inter-Process Communication (Concurrency, Multi-Threading).
* Manipulate many MATLAB/Simulink packages from R2015a-R2016b focusing on Model-Based Design Development field (Stateflow, Embedded Coder, Simulink Coder, and Embedded Coder).
* Knowledge of creating Makefile for NMAKE (for Visual compiler) and GMAKE (for MinGW compiler).
* Used tools:
  + *Version control:* Tortoise Hg, Tortoise Git, Tortoise SVN
  + *IDE:* Visual Studio, MATLAB
  + *Static Code Analysis:* CppLink, CppCheck, MATLAB Code Analysis
  + *Code Coverage:* Visual Studio Enterprise (Team tool)
  + *Others:* WinMerge (compare code), GrepWin (search with RegEx), Kazoeciao (code counting), and self-made tools using Python (automating GUI tasks, data collecting)

Testing Engineer of MBD project 2015 to 2018

* Reduced over 70% of manual testing effort in MBD project by created an automation test tool (using Python, MATLAB, C++, and AutoHotKey). The tool gives various combinations of inputs to test final product. Outputs of the products are automatically analyzed by Python and MATLAB scripts.

# Professional Training

**Renesas Design Vietnam Co. Ltd.**

* Project Planning
* Design for Test
* Root cause analysis using “5 Why”
* Qualitative data analysis
* Requirement traceability

**SOLOLEARN Inc.**

SOLOLEARN Inc. provides an online programming training platform (www.sololearn.com).   
It was subscribed by over 24 million learners over the world.

\* This is where I practice and learning new skills

* Achieved the following certifications:
  + C++, Java
  + Python, Ruby
  + HTML, CSS, JavaScript, jQuery

# Languages

**Vietnamese**: Native Language

**English**: Intermediate Listener, Writer, Novice Speaker, Advanced Reading

# Other

I recognized myself as a lifelong learner, I love coding, and I like animals.