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

About the company, 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++, C#, Java
* Python, MALAB, Ruby
* 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 (e.g. Simulink Coder, Embedded Coder).
* Knowledge of compiling source code using NMAKE (for Visual compiler) and GMAKE (for MinGW compiler).
* Used tools:
  + *Version control:* + Tortoise Hg, Tortoise Git, Tortoise SVN
  + *IDE:* + Visual Studio, MATLAB, Renesas CS+
  + *Static Code Analysis:* + CppLink, CppCheck, MATLAB Code Analysis
  + *Code Coverage:* + Visual Studio Enterprise (Team tools)
  + *Others:* + WinMerge (comparing code), GrepWin (searching with RegEx), Kazoeciao (counting code), and self-made tools using Python (automating tasks, collecting data)

Testing Engineer of MBD project 2015 to 2018

* Reduced over 70% of manual testing effort in MBD project by created an automation test tool with Python, MATLAB, C++, and AutoHotKey. About function of the tool, it gives various combinations of inputs to test final product. All outputs of the product are automatically analyzed by Python and MATLAB scripts.

# Professional Training

**Renesas Design Vietnam Co., Ltd.**

About the company, 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.

\* I worked full time for 3 years.

* Acquired important skills by training:
  + Requirement traceability
  + Project Planning
  + Design for Test
  + Qualitative data analysis
  + Root cause analysis using “5 Why”

**SOLOLEARN Inc.**

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

\* I am practicing and learning new skills there.

* Achieved the following certifications:
  + C++, 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.   
My favorite quote which I learned from my mentor:  
 “If everything is important then nothing is important, select the one that matter”.