Le Cong KHANH

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# Overview & Objective

Have been working as a software developer since 2015. During the past 3 years, I invoved in many roles such as Designer, Coder, and Tester. Became oldest engineer in project, I’d been promoted to Technical Leader (role) from the end of 2017, my team has 6 peoples. This October, we had released latest product (see notes) to mother company in Japan.

As a software developer, I recognized the necessity to improve my technical skillset because many new technologies have been introducing, and I don’t want to be left very far behind. Months recently, I am learning Java, Spring, MySQL, and some web technologies in my sparetime. I am interested understanding how stuffs worked because I only learned embedded systems in the university.

Those small achievements strengthen my love in software. I recognized myself as a lifelong learner, and I felt its time to move. So I annouced my managers about this decision at the end of September, and everybody understood my hope. Until now, we almost finish the knowledge transfer. So I am preparing myself for the next challenges.

My favorite quote  
 “If everything important, then nothing important, select the one that matter”.

**Notes:**

Published information:

<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

**BS** Cantho University (Vietnam), Mechatronics Engineering 2011 to 2014

Graduated with a pretty good GPA (2.9/4.0)

(lookup: <https://qlvb.ctu.edu.vn/>; code: 288616)

# Working Experience (summary)

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

\* This is where I started my career.

* 2017 to m/o 2018: Technical Leader, Designing, Coding, Testing
* 2016 to 2018: Designing, Coding, Testing
* 2016 to 2018: Coding, Testing (Python, C++, AutoHotKey, MATLAB, Batch, C, ASM)
* 2015 to 2018: Automation Testing (Python, AutoHotKey, and MATLAB)

# Computer Skills

**Programming languages**:

* *Proficient:* Python, C/C++, MATLAB, AutoHotKey
* *Intermediate:* Java, Javascript
* *Basic:* jQuery, AngularJS, MySQL, Boostrap, C#, Visual Basic, Ruby, AutoIt

**Environments**:

* Windows, MATLAB & Simulink, Embedded System, Web

# Professional Training

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

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

# Languages

**Vietnamese**: Native Language

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

# Working Experience (more detail)

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

Technical Leader 2017 to m/o 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.

Designing 2016 to 2018

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

Coding 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 2015 to 2018

* Created an automation test tool with Python, MATLAB, C++, and AutoHotKey. By having this tool, we reduced over 70% of manual testing effort in project.

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