Nguyễn Đức Huy

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|  |  | Curriculum Vitae |
| **Personal Information** |  |  |
| Full name: | Nguyen Duc Huy |  |
| Nationality: | Vietnamese |  |
| Place of birth: Ho Chi Minh/Viet Nam | | Date of Birth: 09/11/1990 |
| Gender: | Male | Marital status: Married |
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**Summary**

* Have 4 years experiment in Embbemded C in Automotive field.
* Falimiar with OOP programming (C++)
* Abiliti to automate testing with script language (bash, python)
* Worked in V model development process.

**Abilities**

* Operation System: Windows, Linux (Prefered)
* Compiler: gcc , gbuild(GreenHill Compiler)
* Editor: notepad++, VS code (prefered), Vim
* Diff tools: gitdiff, meld, kdiff3 (prefered)
* Program language: C(prefered), C++, Python(prefered), Bash
* IDE: MULTI IDE (<https://www.ghs.com/products/MULTI_IDE.html>)
* Soft-skill with educated certification: Planning Skill, Peer Review Skill.
* Project Leader of small group (5 members)
* Languages: Vietnamese (Native)

English (TOEIC 780)

**Working Experience**

March 2015 - November 2018

Software Engineer

Renesas Design Vietnam Co., Ltd (<http://vietnam.renesas.com>)

**Responsibilities and Achievements:**

## Benchmark tools porting

- Porting from Linux environment to INTEGRITY environment.

(<https://www.ghs.com/products/rtos/integrity.html>)

- Maintain/Upgrade source code when INTEGITY OS update.

- List of benchmark tools:

+ Lmbench (C language, System performance)

+ Iperf3 (C language, A TCP, UDP, and SCTP network bandwidth measurement tool).

+ Cachebench (C language, Memory benchmark).

+ Unixbench (C language, System Performance).

+ Pmbw (C++ language, Parallel Memory Bandwidth Measurement).

+ Dhrystone (C language, Computing Benchmark).

## Performance Measurement/Benchmark Performance/Performance evaluation

- Run benchmark tools (same list as above) for Performance evaluation report.

- Compare with result on other platform (Linux .vs INTEGRITY OS)

and with result of previous version of same platform (INTEGRITY OS, Linux OS).

- Analyze the result to get the conclusion (Better performance, same ...).

## Driver Development/Maintenance:

- Develop Audio modules driver for RCar Gen3, used on multiple board (H3/M3/M3N/D3/E3).

- Update, add functions to Audio driver base on customer requirement.

## Automation Test System design

- Develop an in-house automation test system for INTEGRITY OS base on python and Jenkins.

- System can auto integrate source code -> Build -> Download to Evaluation Board -> Run -> Input parameter -> Capture logs, result -> Sent result to defined emails.

## Static code analysis

- Create test program to check code coverage (CO/C1) for product code using Cantata tool ([*https://www.qa-systems.com/tools/cantata/code-coverage*/](https://www.qa-systems.com/tools/cantata/code-coverage/)).

+ Create testing program.

+ Propose solution to increase test result.

- Check and fixed source code follow the MISRA C Guidelines (MISRA C:2012) (<https://www.misra.org.uk/MISRAHome/MISRAC2012/tabid/196/Default.aspx>).

for product code using QA-C tools (<https://www.qa-systems.com/tools/qa-c/>).

**Education**

**Bachelor of Engineering**

Major in Computer Engineering

Can Tho University

2008 – 2014

**References**

**LUU MINH TUNG (Mr.)**

Project Leader

Rcar Software Solution 1 Group

OS Solution Team – INTEGRITY OS

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