

Nguyễn Đức Huy

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
Phone:	0946.380.379	Email: duchuy1109@live.com

Summary

- Have 4 years experiment in Embbeded C in Automotive field.
- Familiar with OOP programming (C++)
- Ability to automate testing with script language (bash, python)
- Worked in V model development process.

Abilities

- Operation System: Windows, Linux (Preferred)
- Compiler: gcc , gbuild (GreenHill Compiler)
- Editor: notepad++, VS code (preferred), Vim
- Diff tools: gitdiff, meld, kdiff3 (preferred)
- Program language: C (preferred), C++, Python (preferred), Bash
- IDE: MULTI IDE (https://www.ghs.com/products/MULTI_IDE.html)
- Soft-skill with education 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 INTEGRITY 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).
 - + Dhystone (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/>).
 - + 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
Renesas Design Vietnam Co., Ltd
Mobile: +84 983 592 152

LE HIEU THUAN (Mr.)

Manager
Rcar Software Solution 1 Group
Renesas Design Vietnam Co., Ltd
Mobile: +84 907 893 435