**LUONG HOAN TIEN**

Nationality: Viet Nam

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Personal information

Date of birth: Oct-11-1990.

Degree: Master of Engineering at University of Technical Education Ho Chi Minh City.

Major: Electronic Engineering

Working experiences

1. Embedded Software Developer at Robert Bosch Engineering and Business Solutions (RBVH): From 5/2017 to present.

* Expat Software Developer at Robert Bosch AG (Vienna- Austria) (From 2/2020 to 8/2020) Working with DELib core team at Vienna:
* Responsible:
  + Develop new concept for DELib base on the next generation of ECU Control strategy.
  + Develop new function for driver of smart actuator base on requirement of BMW and Fiat.
* Team leader of DELib team in Vietnam (Device encapsulation library) (From 7/2018 to present): DELib is a platform package in Bosch software for ECU (engine control unit). This package works as a middleware to read sensors value and control actuators. DELib package is developed by DELib team from Austria, India, Vietnam and Romania.
* Responsible:
  + Development for new functionality, maintenance current code.
  + Receive new requirement, analyze tasks and assign task to team member.
  + Mentor for new member, support to build up competency for team member, support team in all technical issue.
  + Responsible for DELib hotline (a Bosch worldwide hotline to answer all questions from anyone who using DELib).
* Achievement:
  + Worked onsite in India in 6 months to bring DELib development project to Vietnam successfully.
  + Built a team in Vietnam to handle development activities and received good feedback from DELib Project leader at Austria.
* Developer for Communication vehicle network in Engine Control Unit (ECU) (From 5/2017 to 6/2018)
* Responsible:
  + Full cycle development (analyze requirement, design, implement and testing) for new frames, new signals for vehicle communication protocol such as CAN, CAN FD, LIN.
  + Mentor for new members, support for any technical problem, consultant for project manager in discussing with customer to get new projects.
* Achievement:
  + Support project manager to get 2 projects of communication vehicle development from 2 customers: Hyundai and Volkswagen.
  + Received spot award for the best employee of quarter after 6 months working.

1. Embedded Software Engineer at Terralogic (Earlier known as InfoNam): From 6/2015 to 4/2017.

* Project: Outsource development and testing for The Light L16 Camera (A new concept for camera – <https://light.co/camera>): This project take over the development for camera control board (CCB) and Android application and testing. CCB has 3 ASICs (core ARM Cortex R9) is used to control 16 cameras base on the commands form host (Snapdragon board) such as snapshot, focus, stream, mirror moving…
* Responsible:
  + Build and develop for unit test system for using Cmoka framework (C language).
  + Contribute for integration test to verify HAL and driver of Camera Control Board. (Involve to verify MIPI bus, I2C driver and Camera Control Board protocol). (C language).
  + Contribute for automation system test using python and shell script with Robot framework.
  + Develop utility tools base on requirement of customer and developer using python and shell script.
  + Manage and maintain Jenkins.
  + Coordinate with customer and developer on following and fixing bugs.
* Achievement:
  + Received two snap awards for the best employee of month and an outstanding award for the best employee of half year.
  + Promoted from Fresher Engineer to Engineer level 2 after one-year working.

1. Researcher at University of Technology and Education HCM city: From 9/2015 to 9/2018.

* Responsible
  + Research on Power electronic for master program.
  + Support professor on researching and writing papers.
  + Participate in a research University project “DC-DC supplier for walkie-talkie using for Vietnam people’s Navy” of Telecommunication University
* Achievement:
  + SCI-E Journal:

1. Hoan-Tien Luong, Minh-Khai Nguyen, Tan-Tai Tran, "Single-phase five-level Z-source T-type inverter", IET Power Electronics, Vol. 11, Issue 14, Pages 2367 - 2376, 27-Nov-18
   * IEEE Conference:
2. Hoan-Tien Luong, Minh-Khai Nguyen, Myoung-Han Yoo, Youn-Ok Choi, GeumBae Cho, “Single-phase five-level buck-boost inverter”, 2017 20th International Conference on Electrical Machines and Systems (ICEMS), IEEE Conference Publications.
3. Minh-Khai Nguyen, Tan-Tai Tran, Hoan-Tien Luong, Kyoung-Won Lee, Youn-Ok Choi, Geum-Bae Cho, “A Three-Phase Hybrid Switched-Boost Inverter”, 2018 International Power Electronics Conference (IPEC-Niigata 2018 – ECCE Asia), IEEE Conference Publications.
   * Domestic Journal:
4. Luong Hoan Tien, Nguyen Minh Khai, Tran Van Thuan, Ngo Van Thuyen, “A single phase five level Z-source T-type inverter”, Special issue Control and Automation(ISSN 1859-0551), Automation Today magazine, No. 16, pp 26-33, Aug-2016.
   * Domestic Conference:
5. Luong Hoan Tien, Nguyen Minh Khai, Tran Van Thuan, Ngo Van Thuyen, “Thesingle phase Z-source T-type inverter with the hybrid shoot-through control strategy”, The 8th Vietnam Conference on Mechatronics (VCM-2016).

Professional skill

* Programming language: C (Advance), C++, Python
* Knowledge:
  + Linux scripting and Linux device driver developing
  + RTOS: FreeRTOS, RTA-OS.
  + AUTOSAR basic.
* Analysis method and tool:
  + FMEA (Has training certificate from Bosch, apply for DELib project)
  + 5 Why, 8D (Applied in DELib project)

Reference

* Nguyen Minh Khai, PhD
  + Assistant Professor with Chosun University, Gwangju, South Korea.
  + Postdoc at School of Electrical Engineering and Computer Science, Queensland University of Technology, Australia.
  + Associate Editor for the Journal of Power Electronics and the International Journal of Power Electronics.
  + Supervisor for my Master thesis.
  + Email: nmkhai@chosun.ac.kr or khaibk@ieee.org