Huy Dinh

Resume

Education

October 2017– November 2019	**Master of Science in Embedded Systems and Microelectronics**, *Darmstadt University of Applied Sciences*, Darmstadt, *1.51*.
October 2011– November 2015	**Bachelor of Engineering in Electrical Engineering and Information Technology**, *Frankfurt University of Applied Sciences*, Frankfurt, *1.8*.

Master thesis

title	*Concept and implementation of a generic vehicle data protocol for a motorcycle-smartphone integration solution*
supervisors	Professor Dr.-Ing. Peter Fromm
description	Development of a generic firmware infrastructure and a protocol to enable the collection and transmission of vehicle data from a Two-Wheeler Integrated Connectitivy Cluster to a smartphone. The protocol also supports bi-directional communication to facilitate the sending of vehicle settings from the smartphone down on to the cluster.

Experience

May 2019– November 2019	**Master Thesis Student**, *Robert Bosch GmbH*, Renningen.
	Investigate available technologies, develop new embedded software and protocols.
	o Carry out studies and automated benchmarks on the current communication infrastructure.
	o Conceptualize and implement a data server - client profile system used for vehicle data and settings.
	o Design and implement a generic protocol to handle bi-directional vehicle data/settings communication.

Lailbergstraße 17G – 71296 Heimsheim

 +49 (176) 5789 4829 • ⊠ *dinhquochuy.eeit@gmail.com*

in *dinh-quoc-huy* • *Huy-Dinh*

October 2018–March 2019	**Software Developer Intern**, *Robert Bosch GmbH*, Renningen. Support and develop software for the Two-Wheeler and eBike project teams ○ Bring up and maintain the embedded codebase of a logging system for Two-Wheeler cluster displays. ○ Develop an automated analysis Jupyter-based framework for eBike GPS field tests. ○ Design and write test ride data analysis tools.
October 2017– September 2018	**Student Research Assistant**, *Darmstadt University of Applied Sciences*, Darmstadt. Provide software assistance to a safety-oriented research project on Infineon AURIX tricore microcontrollers. ○ Write, test and integrate firmware. ○ Improve wireless link reliability and interrupt system signal flow. ○ Write technical documents.
July 2016–July 2017	**Firmware Engineer**, *Misfit Wearables (Fossil)*, Ho Chi Minh, Vietnam and Burlingame, the USA. Develop embedded software on Bluetooth Low Energy System-on-chips. ○ Write and test embedded software. ○ Investigate possible MCU replacements for future products. ○ Supervise algorithm field tests. ○ Write testing/operation tools in Python.
February 2016–June 2016	**Design Service Engineer**, *Ascenx Technology Vietnam*, Ho Chi Minh, Vietnam. Provide support in engineering service. ○ Provide document support for spare parts management. ○ Find replacement for obsolete parts. ○ Re-engineer discontinued parts. ○ Plan and supervise offshore operability tests.

Languages

English	Fluent	*IELTS 8.5*
German	Beginner	*A2*
Vietnamese	Fluent	*Mother tongue*

Skills

Programming languages	C, C++, Python, Java, C#
Communication protocols	UART, CAN, SPI, I^{2}C, Linux IPC
Version control	Git, SVN, Jazz
Operating Systems	FreeRTOS, Embedded Linux, OSEK
IDEs	Visual Studio Code, Eclipse, Qt Creator

Lailbergstraße 17G – 71296 Heimsheim

 +49 (176) 5789 4829 • *dinhquochuy.eeit@gmail.com*

in *dinh-quoc-huy* • *Huy-Dinh*