

Huy Dinh

Resume

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🌐 Huy-Dinh



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 Connectivity 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.
- Carry out studies and automated benchmarks on the current communication infrastructure.
 - Conceptualize and implement a data server - client profile system used for vehicle data and settings.
 - Design and implement a generic protocol to handle bi-directional vehicle data/settings communication.
- 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– **Student Research Assistant**, *Darmstadt University of Applied Sciences*, Darmstadt.
- September 2018 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.
- 2017 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.
- 2016 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	<i>IELTS 8.5</i>
German	Beginner	<i>A2</i>
Vietnamese	Fluent	<i>Mother tongue</i>

Computer skills

Programming languages	C, C++, Python, Java, C#
Version control	Git, SVN, Jazz
Operating Systems	FreeRTOS, Embedded Linux, OSEK
IDEs	Visual Studio Code, Eclipse, Qt Creator