



Huy Dinh

Resume

Education

- October 2017–November 2019 **Master of Science in Embedded Systems and Microelectronics**, *Darmstadt University of Applied Sciences, Darmstadt, 1.3*
- 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

- October 2022–Now **Senior Software Engineer**, *e.solutions GmbH, Ingolstadt*
Develop Embedded Linux software for automotive connectivity modules.
- February 2020–September 2022 **Software Engineer**, *TeamViewer AG, Göppingen*
Full-stack development of Remote Management solutions: Endpoint Protection, Web Monitoring, Backup.
- Designed a technical security solution for Web Monitoring and Endpoint Protection.
 - Designed and implemented a caching mechanism to improve server side performance.
 - Developed extensions to the TeamViewer client software in C++.
 - Developed microservices in C++.
 - Front-end and Back-end Web development with React TypeScript and Azure.

Lena-Christ-Straße 13 – 85055 Ingolstadt

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

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- October 2018– **Software Developer Intern - Master Thesis Student**, *Robert Bosch GmbH*, Renningen
- November 2019 Support and develop software for the Two-Wheeler and eBike project teams
- Brought up and maintained the embedded code base of a logging system for Two-Wheeler cluster displays.
 - Developed an automated analysis Jupyter-based framework for eBike GPS field tests.
 - Conceptualized and implemented a data server - client profile system used for vehicle data and settings.
 - Designed and implemented a generic protocol to handle bi-directional vehicle data/settings communication.
- 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.
- Greatly improved the reliability of a ZigBee communication link with hardware flow control.
 - Refactored the interrupt handling system to allow for better ease of use.
 - Kept the software documented.
- July 2016–July 2017 **Firmware Engineer**, *Misfit Wearables (Fossil)*, Ho Chi Minh, Vietnam
- Embedded software development on Bluetooth Low Energy System-on-chips.
- Wrote and tested embedded software for wearable fitness trackers.
 - Ported common code onto different microcontrollers to assess their usability.
 - Developed software for testing/operation equipments in Python.
- February 2016–June 2016 **Design Service Engineer**, *Ascenx Technology Vietnam*, Ho Chi Minh, Vietnam
- Provide support in engineering service.
- Provided document support for spare parts management.
 - Took care of finding replacements for obsolete machine parts.
 - Re-engineered discontinued parts.
 - Planned and supervised offshore operability tests.

Languages

English	Fluent	<i>IELTS 8.5</i>
German	Conversational	<i>B2</i>
Vietnamese	Fluent	<i>Mother tongue</i>

Skills

Programming languages	C, C++, Python, C#, JavaScript, TypeScript, Rust
Communication protocols	UART, CAN, SPI, I ² C
Version control	Git, SVN, Perforce
Operating Systems	FreeRTOS, Embedded Linux, OSEK
IDEs	Visual Studio Code, Eclipse, Qt Creator

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