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 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

February 2020–Now **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.

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October 2018–November 2019 **Software Developer Intern - Master Thesis Student**, *Robert Bosch GmbH*, Renningen

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–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.

- 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 and Burlingame, the USA

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	*IELTS 8.5*
German	Conversational	*B1*
Vietnamese	Fluent	*Mother tongue*

Skills

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

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