Gergely Bilkei-Gorzo

Specialist Embedded Systems

Personal Summary:

I am an automation engineer and PhD candidate at RWTH Aachen's Institute for Automotive Engineering, specializing in embedded systems development. I am passionate about advancing software and hardware solutions that drive efficiency, quality, and impactful results in the automotive industry.

Skills

Programming & Development:

-Proficient in C, Matlab/Simulink, and embedded systems (firmware, RTOS, bootloader, protocols, bus communication, circuit design)
-Experienced in Python and C++
-Skilled in containerization using POSIX functions
-Basic experience with container development using Docker

Hardware & Integration:

-Experienced in circuit and PCB layout design
-Extensive experience in hardware testing for series production designs
-Proven track record in system integration for prototype vehicles
-In-depth knowledge of Steer-by-Wire systems

Management:

-Experience in personnel and project management

Languages:

-Hungarian: Native
-German: Bilingual Proficiency
-English: Professional Working Proficiency

Contact

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Work Experience

2018 - present | Research Assistant/ PhD candidate
Institute for Automotive Engineering
- Delivered lectures for various industry partners.
- Designed and developed hardware layouts for both prototype and series production systems.
- Performed hardware testing and provided consultation on recommended improvements.
- Developed software for multiple embedded platforms integrated into prototype vehicles.
- Served as the primary point of contact for customer-related issues.

2024 - present | Specialist Embedded System
Institute for Automotive Engineering
- Provided technical lectures for industry partners.
- Developed a container management system for automotive applications.

Education

2016 - 2018 | Automation Engineering (RWTH Aachen)
- Master Thesis: Smart Power Distribution Unit for 48V automotive power net
- Worked as a student assistant on the design and control algorithm for a 400V to 48V DC/DC converter

2009 - 2015 | Mechanical Engineering, Specialization in Automotive (RWTH Aachen)