Gergely Bilkei-Gorzo

Specialist Embedded Systems

Personal Summary:

I am an automation engineer currently working as a Research Assistant and PhD candidate at the Institute for Automotive Engineering at RWTH Aachen University. I am passionate about driving innovation in software and engineering projects, with a strong focus on efficiency, quality, and impactful results.

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

Gergely Bilkei-Gorzo
Vaalser Str. 150A, 52074 Aachen
Phone: +49 15122981347
Email: gergelybilkei@gmail.com

Work Experience

2018 - present | Research Assistent/ 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.
- Development of a container Developed a container management system for automotive applications.

Education

2016 - 2018 | Automation Engineering (RWTH Aachen)
- Master Thesis: Smart Power Distrbution 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, spcialization Automotive (RWTH Aachen)