

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

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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 Automotive (RWTH Aachen)