



András Gémes

Date of birth: 2 March 1993

Address: Budapest 1096, Hungary

E-mail: andrasgemes@outlook.com

Mobile phone: +36 70 419 3787

[linkedin.com/in/gemesa](https://www.linkedin.com/in/gemesa) – github.com/gemesa

Work experience

C/Rust Compiler Engineer

HighTec EDV-Systeme GmbH

Feb 2023 – present, Budapest

Main tasks:

- implementing Rust HALs and BSPs
- benchmarking C/Rust compilers

Software Development Engineer

Knorr-Bremse R&D Center

May 2018 – Jan 2023, Budapest

Main tasks:

- integrating ADAS SW on different ECUs
- configuring platform modules
- implementing platform supporting functions
- setting up the build environment
- performing static code analysis
- building and debugging the executables
- coordinating and supporting interns

Education

MSc in Mechatronics Engineering

Budapest University of Technology and Economics

Feb 2016 – June 2018, Budapest

Specialization: Intelligent embedded systems

Master's thesis: Design of a solar energy utilization system

BSc in Mechatronics Engineering

University of Pannonia

Sept 2012 – Jan 2016, Veszprém

Specialization: Process engineering

Thesis: Design and development of a multicopter-carried river sampling device

Technical skills

Working knowledge:

- embedded systems (STM32, AURIX)
- C
- Rust
- Assembly (ARM, TriCore)
- Python 3
- GCC, Clang, Arm Compiler, TriCore Compiler
- make, CMake, Meson
- PLS UDE, TRACE32, GDB
- PC-Lint, Clang-Tidy
- Linux, Bash (Fedora, Debian, Ubuntu)
- Git (GitHub, GitLab, Bitbucket)
- Docker

Basic knowledge:

- Linux network stack
- IEEE 802.11, radio technology
- ethical hacking (Wi-Fi, CAN)

Language skills

- English (working professional)
- Hungarian (native)

Hobbies – projects

- ethical hacking (Wi-Fi, CAN)
- contributing to open-source projects (e.g. [aircrack-ng](https://github.com/aircrack-ng) and [hcxdumptool](https://github.com/hcxdumptool))
- contributing to my STM32 projects ([stm32-rf-scanner](#), [stm32-dc-dc](#) and [rustlink](#))