

András Gémes

Date of birth: 2 March 1993

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gemesa.dev – github.com/gemesa – linkedin.com/in/gemesa

Work experience

Rust Embedded Software Engineer

HighTec EDV-Systeme GmbH

Feb 2023 - present, Budapest

Main tasks:

- implementing Rust HALs and BSPs
- implementing Rust benchmark framework

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

reb 2010 – Julie 2010, Budapesi

<u>Specialization:</u> Intelligent embedded systems <u>Master's thesis:</u> 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 and microcontrollers (STM32, ESP32, AURIX)
- AWS IoT, MQTT, LoRa, CAN, J1939, UART, SPI, I2C, RTOS, DMA, ADC/DAC
- HW debug tools (ST-LINK, J-Link, PLS UAD, Lauterbach, oscilloscope, logic analyzer)
- SW debug tools (GDB, PLS UDE, TRACE32)
- C, Rust, Python 3, Assembly (ARM, TriCore)
- GCC, Clang, Arm Compiler, TriCore Compiler
- make, CMake, Meson
- PC-Lint, Clang-Tidy, Valgrind
- Linux, Bash (Fedora, Debian, Ubuntu)
- Git (GitHub, GitLab, Bitbucket), Docker

Basic knowledge:

- electronic circuits and PCBs
- IEEE 802.11, radio technology
- ethical hacking (Wi-Fi, CAN)

Language skills

- English (working professional)
- Hungarian (native)

Hobbies – projects

- contributing to open-source projects (e.g. aircrack-ng and hcxdumptool)
- working on my STM32 and ESP32 projects
 (e.g. <u>rustlink</u>, <u>esp32-phantom</u>, <u>esp32-mqtt</u>, stm32-rf-scanner and stm32-dc-dc)
- studying for my CEH exam