András Gémes

Date of birth: 2 March 1993
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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
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, ESP32, 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, Valgrind
- 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 and hcxdumptool)
- working on my STM32 and ESP32 projects (e.g. rustlink, esp32-phantom, stm32-rf-scanner and stm32-dc-dc)
- studying for my CEH exam