Dániel **Arany**

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Freshly graduated embedded software engineer with 3 years of part-time experience is looking for a full-time opportunity.



Education

Master of Science in Electrical Engineering

Budapest University of Technology and Economics

2022 - 2024

Budapest

Specialization:

- Computer-Based Systems
- FPGA-Based Systems

Flex

Bachelor of Science in Electrical Engineering

Budapest University of Technology and Economics

2018 - 2022

Budapest

Specialization:

· Embedded and Control Systems

Professional Experience _____

Junior Software Engineer

2022 - Present

Budapest

- Flex • Implement features in an embedded project using yocto.
- Create patches for external open-source tools.
- · Suggested and implemented a firmware component version handler tool in C, that can be utilized through multiple projects.

OpenBMC Yocto Project C C++ BASH CMake

Software Developer Trainee

2021 - 2022

Budapest

- Assist the Firmware Team by writing low-level sofware features and unit tests.
- Implement more complex embedded software solutions and write documentation.

C Aurix Python Makefile

Student Council Representative

2020 - 2021

Budapest

Budapest University of Technology and Economics

- Communicate with students via email and advise them about university policy.
- · Represent student interests at various meetings.

Projects

Multicore Rust on STM32H7 Microcontroller

2023

- · A software framework that enables the utilization of both cores of an STM32H745 microcontroller
- · Provides examples of the two cores communicating and cooperating
- Contains a dual-core demo application using ethernet and analog interfaces

Neural Network Evaluation on Xilinx SoC

2022

- Run pre-trained neural networks to perform facial recognition on a Xilinx evaluation board using Petalinux
- Use gstreamer to preprocess images and handle video feeds

Firmware Update Software for AURIX TriCore Microcontroller

2021

- · A secondary bootloader for an Infineon Aurix microcontroller
- Implements Software Over The Air by receiving the new firmware image via TFTP
- Activates the new image by handling the Aurix security features

Skills

Languages English (C1) | Hungarian (native)

Programming C | C++ | Rust | Python | BASH | Robot Framework | Matlab | Verilog

Development GCC/G++ | Makefile | CMake | Visual Studio | VSCode | Linux kernel | OpenBMC | Petalinux

Other Git | Linux usage | Yocto Project | KiCAD | JIRA | Confluence

Dániel Arany Curriculum vitae