

Dániel Arany

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Education

Budapest University of Technology and Economics

MSC IN ELECTRICAL ENGINEERING

Budapest

February 2022 – Present

Budapest University of Technology and Economics

BSC IN ELECTRICAL ENGINEERING

GPA: 4.6

Budapest

September 2018 – January 2022

Work Experience

Flex

SOFTWARE DEVELOPER TRAINEE

2021 – Present

- Assisting the Firmware Team by writing low level software codes and unit tests.
- Implementing bigger features and writing documentation.

Budapest University of Technology and Economics

DEMONSTRATOR

- Teaching intro level programming and digital technology classes for first year students, by explaining and presenting solutions to tasks.
- Assisting the instructor in computer labs by helping the students individually.

Budapest University of Technology and Economics

STUDENT COUNCIL REPRESENTATIVE

2020 – 2021

- Communicating with students mostly via email and advising them about school policy.
- Representing student interests at various meetings.

Skills

Programming Languages: C/C++, Embedded C, Python, BASH Scripting, Matlab, Verilog

Development Enviroments: CubeIDE, Simplicity Studio, HighTech IDE, ESP-IDF

Xilinx Tools: Vivado, Vitis, Petalinux

Other skills: Git, Linux and Embedded Linux, Yocto Project, PCB Design (KiCAD)

Projects

BSc Thesis

C, Bash, Makefile

A SECONDARY BOOTLOADER FOR INFINEON AURIX MICROCONTROLLER. IMPLEMENTING SOFTWARE OVER THE AIR BY RECEIVING THE NEW IMAGE VIA TFTP, LOADING IT INTO MEMORY AND ACTIVATING IT.

Sensor Network with BeagleBone and ESP32

C++, Python

A SENSOR NETWORK CAPABLE OF MONITORING TEMPERATURE LIGHTNING AND OTHER SIMILAR QUALITIES. USING A BEAGLEBONE AND AN ESP32 CONNECTED TOGETHER AS THE HEAD OF THE NETWORK, AND ESP8266-S WITH SENSORS AS THE NODES.

<https://github.com/Goldan32/onlab>