



EMBEDDED SYSTEMS SOFTWARE DEVELOPER

Arkadiusz Tyran

Electronics and embedded systems engineer with 10+ years of experience in IoT, Smart Home technologies, and full-stack development. Holds a Master's degree in Electronics and Telecommunications from AGH University of Science and Technology. Demonstrates a proven track record in software engineering, hardware design, and customer success. Skilled in embedded C/C++, Python, and Angular/TypeScript. Passionate about electronics since childhood and driven by a desire to build impactful solutions through technical intuition.

PROFESSIONAL GOAL

To drive innovation in embedded systems by developing efficient solutions that integrate cutting-edge technologies and deliver real-world impact.

Personal details

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Languages

ENGLISH ● ● ● ● ● ○

Fluent; experienced in multinational environment

Experience

○ SOFTWARE APPLICATION ENGINEER | NEEDCODE / QORVO

Aug 2022 - Present

- Developed firmware for Qorvo's IoT-oriented microcontrollers
- Delivered Customer Success and Support services to Qorvo's global clients
- Maintained SDKs for Remote Controls and Smart Home Gateways
- Conducted hardware-level R&D, including PCB soldering, measurements and testing

PROJECTS

- Smart Home Gateway on Linux platform integrating BLE, Zigbee, and OpenThread
- BLE/RF4CE Remote Controllers (C, bare-metal)
- Firmware update mechanism via I2C interface
- High-current PWM smart driver for brushed motors with current sensing
- Platform game for CES demo (Python, Pygame)

○ SOFTWARE DEVELOPER | INPOST

Dec 2018 - Aug 2022

- Developed firmware for resource-constrained embedded platforms
- Performed manual and automated testing of parcel machines
- Contributed to both front-end and back-end development

PROJECTS

- Embedded platform for parcel machines (C, C++, FreeRTOS)
- Initiated automated testing for REST APIs (Python, Behave)
- Created GUI application for manual REST API testing (Python, Tkinter)
- Developed front-end for parcel machine maintenance service (Angular, TypeScript, UX/UI)

○ EMBEDDED SOFTWARE DEVELOPER | SILVAIR

Apr 2015 - Oct 2018

- Developed firmware for embedded IoT systems
- Automated behavioral and certification testing
- Participated in BLE Mesh standardization and certification processes, including taking a part in the IOP event

PROJECTS

- BLE Mesh smart lighting system platform (C, FreeRTOS, nRF52)
- GUI application for smart lighting system management (C++, Qt)
- Manual certification of the first BLE Mesh stack

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Skills

PYTHON

Scripting, automated testing

C/C++

Low-level programming for resource-constrained systems

ANGULAR + TYPESCRIPT

Front-end development, UX/UI design

HARDWARE

PCB soldering, hardware R&D

COMMUNICATION SKILLS

Collaborative, open-minded, effective communicator

Education

2016 – 2017	Master's Degree in Electronics and Telecommunication Embedded Systems AGH University of Science and Technology
2012 – 2016	Bachelor of Science in Electronics and Telecommunication AGH University of Science and Technology
2008 – 2012	Electronics Technikum nr 3 przy ZSEiM im. Jędrzeja Śniadeckiego w Bielsku-Białej

Courses & Achievements

2021	<ul style="list-style-type: none">• Angular Master
2012	<ul style="list-style-type: none">• Finalist of the national competition "XXXV National Olympiad in Electrical and Electronic Knowledge"
2011	<ul style="list-style-type: none">• Winner of the regional competition "Proficient in the profession - electronics technician"