

Kuba Jaloszynski

(Full-Stack) Embedded Software Engineer

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[LinkedIn](#) | [Portfolio](#)

PROFESSIONAL PROFILE

Electrical Engineer with a Master's degree specializing in RF and IoT, expert at bridging the hardware-software gap through 4+ years of professional experience. Proven track record in developing complete embedded solutions, from digital hardware design to production-ready custom PCB designs. Specialist in wireless and RF technologies. Experienced in utilizing bare-metal approach, Zephyr RTOS, and Embassy OS across 12+ microcontroller projects, with a focus on low-power optimization and industrial communication protocols.

PROFESSIONAL EXPERIENCE

Embedded Software Engineer

Dec. 2024 – Present

Electrolux Poland sp. z o.o.

Warsaw, Poland

- Developing firmware for NXP microcontrollers and SoMs utilizing Zephyr RTOS and Embedded Linux.
- Implementing internal communication protocols and optimizing real-time performance for house appliances.

Embedded Engineer

Oct. 2023 – Dec. 2024

DTU Energy

Copenhagen, Denmark

- Transformed electrochemistry test automation into production-ready solutions with 3 hardware iterations.
- Developed STM32F103 firmware with Zephyr RTOS and integrated Rust (Tauri) for research data management.

Embedded Engineer

Aug. 2023 – Dec. 2023

Anemorobotics ApS

Copenhagen, Denmark

- Designed 60m depth-rated custom PCBs with STM32L073 for marine life camera systems.
- Achieved 1-month battery life with interrupt-driven DMA firmware.

Embedded Software Engineer

Jan. 2023 – July 2023

UXEON sp. z o.o.

Warsaw, Poland

- Developed production-grade 6-channel I/O firmware for STM32G0 units under strict power budgets.
- Implemented industrial Modbus (RS485) and 1-wire communication protocols for existing hardware.

Fullstack Software Engineer

Apr. 2022 – Dec. 2022

Impicode sp. z o.o.

Warsaw, Poland

- Built a C-based language interpreter using Bison and Flex.
- Integrated Django web API with PostgreSQL via Docker infrastructure.

EDUCATION

MSc Electrical Engineering

Copenhagen, Denmark

Technical University of Denmark

- **Technologies:** IoT Prototypes, RF Design, Embedded Systems, Power Electronics, Wireless Communications.

BSc Power Engineering

Warsaw, Poland

Warsaw University of Technology

- **Technologies:** Python, Data Science, Web Interfaces (Django), Electronics, Microcontrollers (STM32, AVR).

TECHNICAL SKILLS

Embedded: Zephyr RTOS, Embassy OS, Embedded Linux

Programming: C, Rust, Python

Hardware Design: PCB Design, FPGA, STM32, NXP: MKE, iMX