

Mykyta Maiboroda

Embedded Systems Engineer

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TECHNICAL SKILLS

LANGUAGES

C C++

EMBEDDED & MCUS

STM32 FreeRTOS Arduino

MCU Architecture

PROTOCOLS & PERIPHERALS

I2C SPI UART RS485

ADC / DAC Sensors

ELECTRONICS & HARDWARE

Schematic Reading

Circuit Design Diagnostics

Soldering

TOOLS

Git CLion SQLite

Grafana

LANGUAGES

Ukrainian Native

English Intermediate (B1+)

EDUCATION

Lviv National University

B.Sc. Software Engineering

Specialization: High-Performance Computing (HPC)

2024 – Present

ADDITIONAL TRAINING

Mastering RTOS
Hands-on FreeRTOS & STM32Fx with Debugging · Udemy

Modern C++
From Intermediate to Advanced · Udemy

SUMMARY

Software Engineering student specializing in Embedded Systems. Experienced in C/C++ firmware development, STM32 architecture, and FreeRTOS integration. Practical knowledge of mixed-signal hardware peripherals, sensor communication, and low-level protocols (I2C, SPI, UART). Capable of reading electrical schematics with a basic understanding of circuit design. Focused on delivering reliable hardware–software integration and firmware validation.

EXPERIENCE & PROJECTS

Embedded Systems & RTOS Integration Apr 2026 – Jun 2026

- Developed C-based embedded firmware for STM32 microcontrollers, implementing real-time control logic using FreeRTOS.
- Managed hardware interrupts and task scheduling for low-latency execution.

C STM32 FreeRTOS

Local IoT Monitoring System Feb 2026

- Designed and implemented a 3-tier IoT architecture focusing on robust hardware–software integration.
- Developed a C++ backend with an SQLite database for reliable data management.
- Interfaced microcontrollers with mixed-signal peripherals and environment sensors via I2C and SPI.

C++ SQLite I2C SPI

RELEVANT COURSEWORK

Development of a monitoring and control system for an embedded device via a console client, using the embedded SQLite database management system with data visualisation in Grafana.

SQLite Grafana Console Client