



Kyrylo Matiushenko

Embedded Developer

Kyiv, Ukraine

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Languages

Ukrainian ● ● ● ● ● ●

English ● ● ● ● ● ●

Polish ● ● ● ● ● ●

Skills



C++



Python

Certification

Python DataScience 2023

Completed GoIT Python Web + Data Science course: full-stack development, databases, and core data analysis tools.

IELTS 2025

IELTS Certificate – Overall Band 6.5

Links and Credentials



LinkedIn



Github

About

Embedded Software Developer with experience in embedded systems, IoT devices, robotics, and automation. Skilled in C/C++, Python, Linux, and microcontroller programming, with hands-on experience developing firmware, integrating hardware, debugging electronics, and building computer vision systems. Contributed to an AI-assisted embedded navigation project for GPS-denied environments. Interested in embedded software, autonomous systems, UAVs, and defense technologies.

Education

2023 – now

● Igor Sikorsky Kyiv Polytechnic Institute

Faculty of Informatics and Computer Engineering

Studying at the Faculty of Informatics and Computer Science (FIOT), NTUU “KPI”, which specializes in software engineering, computer systems, and modern IT solutions for various industries.

Experience

2022 – 2023

● Embedded Systems Developer | Escape Rooms

Designed and developed embedded electronic systems for interactive escape rooms. Programmed Arduino-based controllers and integrated sensors, relays, RFID, lighting, audio, and automation systems. Performed hardware integration, testing, debugging, and maintenance.

Projects



● **ESP8266 Camera Streaming & Object Tracking**

Embedded vision system with real-time video streaming and object tracking.

Platform: ESP8266

Technologies: C++, OV2640, Wi-Fi, Computer Vision, Embedded Systems



● **Electric Vehicle Conversion & Embedded Control System**

Embedded control system for Honda Tact 24 EV conversion with RF keyless access.

Platform: Arduino Nano

Technologies: C++, Arduino, RF Communication, RFID, UART, PWM, Motor Control, Power Electronics, Embedded Systems



● **AI-Assisted Navigation System**

AI-assisted embedded navigation for GPS-denied environments.

Platform: NanoPi R5S

Technologies: Python, C++, Linux, OpenCV, Computer Vision, AI, Git

Tech Stack

- **Languages:** C/C++, Python, Bash
- **Embedded:** Arduino, ESP8266, STM32, UART, SPI, I²C, PWM
- **Computer Vision:** OpenCV, Image Processing, Object Tracking
- **AI:** Machine Learning Basics
- **Networking:** Wi-Fi, TCP/IP, RF Communication
- **Tools:** Git, PlatformIO, Arduino IDE, Docker (basic)