



Aliaksandr Nazaruk

Systems / Automation / Software Engineer

Location: EU

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Profile

Systems and software engineer with practical experience in automation, robotics software, and embedded systems. Worked on development and integration of control software, monitoring services, and hardware–software solutions. Experience includes ROS2-based systems, Embedded Linux, and network-connected services. Focused on system stability, predictable behavior, and maintainable code.

Technical Skills

Programming Languages: Python, C++, JavaScript, C#

Software Development

- Application and system-level development
- Modular design and internal interfaces
- Asynchronous and concurrent logic
- Error handling and logging

Robotics & Automation

- Robotics software integration
- ROS2-based systems
- State and control logic
- Diagnostics and monitoring

Embedded Systems & Electronics

- Embedded Linux (ARM platforms)
- Microcontrollers and peripherals
- Hardware–software integration
- Device prototyping

Networking & Infrastructure

- TCP/IP fundamentals
- Remote access and network services
- Basic network troubleshooting

Tools

- Linux, Windows
- Docker, systemd
- Git, development and debugging tools

Professional Experience

Automation / Software Engineer — engineering and project work

- Development and maintenance of software components for automation and robotic systems.
- Work with ROS2-based software as part of robotic platforms.
- Implementation of control logic and system states.
- Integration of software with hardware devices, sensors, and actuators.
- Development of supporting services for monitoring, testing, and diagnostics.
- System debugging and stabilization during operation.
- Work with embedded Linux systems and remote environments.
- Technical documentation.

Education

Engineering background in Industrial Electronics / Microelectronics. Microelectronics and circuit design; microcontrollers and microprocessors (ARM, STM, ESP, Atmega, PIC); embedded systems; fundamentals of automation and control.

Languages

English — Basic · Ukrainian / Russian — Native · Polish — Advanced