

Rimgaudas Jurkaitis

Embedded Linux Developer

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About me

Embedded Linux developer specializing in C, Linux kernel development, OpenWrt, and embedded networking. Experienced building kernel drivers, custom Linux integrations, and networking software for embedded devices. Passionate about low-level systems programming and Linux internals

Experience

Teltonika IoT Academy(2026 May-July)

Embedded programming:

Recent projects

- [Linux Kernel I2C Character Driver](#) | C, Linux Kernel API, I2C, Concurrency, ARM Architecture - Authored a custom Linux kernel I2C client driver (struct i2c_driver) for the BCM2837 SoC (Raspberry Pi 3B), establishing an absolute boundary isolation by creating a custom character device at /dev/lcd-screen. Designed a buffered text state machine with multi-page rendering capabilities (16x2 pages) utilizing kernel struct delayed_work to manage background page scheduling and automatic 3000ms rotation loops.
- [Linux Platform & Device Tree Driver](#) | C, Linux Kernel API, Device Tree (DTS), GPIO Subsystem, Drivers - Developed a Linux platform driver using Device Tree bindings and the GPIO subsystem to control hardware through the Linux driver model.
- [OpenWrt Netifd Upstream Routing Patch](#) | C, OpenWrt, Networking Stacks, Linux Routing (iproute2) - *This patch adds default-gateway inheritance for static routes that do not define an explicit gateway, and keeps inherited routes synchronized when the active default route changes.*
- [Tuya IoT Cloud Gateway Stack](#) | C, OpenWrt (RUTOS), IPC (ubus), MQTT, Serial/UART - Tuya integration stack for RUTOS/OpenWrt in this SDK tree. The project bridges Tuya IoT Cloud messages to local ubus methods, then forwards hardware requests to an ESP-based module over serial.
- [Network Benchmarking Engine \(SpeedTest\)](#) | C, libcurl, cJSON, POSIX Networking, Geo-APIs - C-based command-line benchmarking utility that utilizes libcurl to execute concurrent, time-based download and upload throughput tests with configurable stream counts

Education

Amsterdam Tech.

BSc Software Engineering (remote)

2025 - 2028

Technical Skills

Programming Languages

- C, C#, Python, Go, JavaScript, TypeScript

Embedded Systems

- Linux, Buildroot, OpenWrt, Raspberry Pi
- Cross-compilation (crosstool-NG)
- Embedded Linux Development
- I2C, UART, and SPI Peripherals

Systems & Networking

- Systems Programming
- TCP/IP Fundamentals
- Router Configuration
- Embedded Networking
- Shell Scripting

Development Tools

- Git, GitHub, GitLab

Software Development

- Algorithm Optimization
- AI-Assisted Development

Soft Skills

- Team leadership in 3-4 person development teams
- Experience presenting projects at public events
- Comfortable working under tight deadlines
- Fast learning of new technologies
- Can do attitude

Languages

Lithuanian and English