

IVAN SPASIĆ

EMBEDDED SOFTWARE ENGINEER

ABOUT ME

Experienced, multi-disciplinary embedded software engineer focused on bridging electronics and software. Skilled in microcontrollers, circuit design and embedded Linux.

CONTACT DETAILS



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www.gitlab.com/spasoye



10040, Zagreb

WORK EXPERIENCE

>> Embedded software engineer

Byte Lab | 2017 to 2020

- Developed embedded software for consumer, luxury and industrial devices.
- Worked on various embedded Linux systems.
- Developed libraries for various accelerometer/magnetometer/gyro sensor ICs , GPS/GNSS modules.
- Some of the examples of the projects I was the part of are QUS and Crossbox wearable sports trackers.
- Experience with LoRaWAN.
- Experience with various development of the ESP32 and STM32 based devices.

>> Embedded software engineer

Gideon Brothers | 2020 to 2024

- Embedded software for autonomous mobile industrial robots
- Development and design of embedded Linux applications
- Coordinated the firmware development for A-Unit project:
 - Implementing Toradex software environments into the project design
 - Modifying and creating new device trees
 - Development and implementation of Codesys PLC environment into existing Toradex design
 - Creating Docker containers to handle applications
 - Integrating production ready device to an existing Gideon's robots infrastructure
- Development of safety firmware for use in autonomous mobile robots:
 - CANopen stack baremetal porting
 - RM48 development, TI HET co-processor setup

EDUCATION HISTORY

>> Faculty of Electrical Engineering and Computing, Zagreb

Master's degree, Electronic and Computer Engineering

- From 2015 to 2017.
- Master degree thesis on LoRaWAN implementation with STM32 microcontroller LoRaWAN demo application.
- Participated in Samsung MAD Challenge as a part of SAN team.

>> Faculty of Electrical Engineering and Computing, Zagreb

Bachelor's degree, Electrical, Electronics and Communications Engineering

- From 2012 to 2015.
- Bachelor degree thesis on using LCDs in embedded devices with demo application of STM32 ILI9341 LCD controller.

SKILLS

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|------------------|-----------------|
| • C | • KiCad |
| • Python | • STM32 |
| • Bash | • ESP32 |
| • Linux OS | • freeRTOS |
| • Embedded Linux | • Zephyr |
| • git | • Docker |
| • device tree | • HomeAssistant |
| • Micropython | • gitlab CI/CD |