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

095 8846 191

ivan@spas-tech.hr

www.linkedin.com/in/ivan-spasić
www.github.com/spasoye
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 controler.

SKILLS

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