MP

🧑 23 years

♂ Male

📍 Chișinău

📨   🔗

TOP Skills

- **Python** · *3 years*
- **ESP-IDF-Arduino** · *3 years*
- **ESP-IDF** · *3 years*
- **STM32** · *3 years*
- **ESP32** · *3 years*
- **C++** · *3 years*

Preferences

- Full-time
- Flexible
- Part-time
- In-house
- Hybrid
- Remote

Languages

- **Romanian** · Native
- **Russian** · Native
- **English** · Communication

Embedded Software Engineer

About me

Young and passionate in programming and embedded environment. Not hesitant to learn and dive into new fields, technologies and experiences.

Work experience

Firmware engineer · MARS SOLUTIONS SRL · Chișinău
May 2022 - Present · 3 years 3 months

Software development for both custom-built and off-the-shelf boards based on STM32 and ESP32 microcontrollers.

The primary purpose of these devices included: data acquisition from sensors/devices via SPI, I2C, I2S; interfacing with devices using RS-485; data processing; data packaging; saving data to an external SD card; uploading data via WiFi/LTE; and remote firmware updates.

For one of the projects, a Windows application was developed for device configuration, data collection, and data visualization in charts and tables. It was written using C# and WPF.

For another project, a Python script was developed to serve as a bridge between devices using different protocols and a server for storage and data analyzing. This script handled data conversion to a unified format, device status monitoring, and device configuration.

For yet another project, a web application with a lightweight CRM system was created based on the Odoo framework. The backend was written in Python using an ORM structure, with the frontend in XML/JS.

As part of this project, a Python script was also implemented to convert audio files into text. File reception via FTP, Telegram bot management, and audio processing were handled in separate processes.

Skills: Python, ESP-IDF-Arduino, ESP-IDF, STM32, ESP32, C++, C

Desired industry

- IT, Tech

Education: Incomplete higher

CEITI
Graduated in: 2022
Faculty: Informatica
Speciality: Programarea și analiza produselor program

USM
Currently studying
Faculty: Fizica
Speciality: Tehnologia informației