Dmitrii Lisin

Software Programmer, Embedded Programmer

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> I began my career as an intern at an electronics design firm, I discovered that I enjoyed creating something that worked in real life rather than just inside my computer. I have finished a lot of embedded projects from different spheres and dealt with numerous instruments, protocols, and peripherals. It has always been my intention to write only high-quality, human-readable code. Had prior team leadership experience, but preferred to work as an equal member of the team. In my free time, I also prefer to extend my knowledge of programming languages, techniques, and trends by working with hobby projects.

SKILLS

Python Development
Advanced

FastAPI Pydantic ORM
WAMP protocol Async
Threading

C++ Development
master

CMake Make STL
Concepts C++17 C++20

Embedded Development
Master

C/C++ Zephyr FreeRTOS
STM32 Nordic
Real-time protocols
Industrial protocols
Stack only programming

CI/CD
Intermediate

Docker Docker Compose
Github Actions Gitlab Pipelines

Web Development
Intermediate

HTML CSS JavaScript
Typescript React Parcel
Rollup

Databases
Intermediate

PostgreSQL SQLAlchemy
PonyORM SQL

Rust
Beginner

Tauri

Common

Git Gitlab Github Reviewing
Linux Reading schematics
Datasheet exploring

WORK EXPERIENCE (3)

Software engineer at BostonGene   **2022 - Current**

Support and enhance a complex Python backend that provides an environment for bioinformatics pipelines to calculate.

Team leader at LLC "Third Pin"   **2020 - 2022**

Developed a flexible testing system for embedded electronics based on distributed micro-services connected by PubSub/RPC Web-protocol.

- Robster: flexible testing system for electronic devices (Python, WAMP, Microservice, Docker, PostgreSQL)
- Gate valve controller (ARM, STM32, Zephyr, Modbus)
- GPS tracker for a professional training (ARM, Nordic, GPS, UBlox, Ant)

Embedded Software Developer at LLC "Third Pin"   **2013 - 2020**

Have been finished more than 20 commercial projects in embedded area including IoT, safety systems, shipbuilding.

- Pastilda: hardware password manager (STM32, ARM, Crypto Peripheral, SDIO, FatFS, FreeRTOS)
- Ship ruder control system (ARM, STM32, USB HID, FreeRTOS)
- Fire alarm system (ARM, STM32)
- MTUTA: Telemetry of vending machines (ARM, FreeRTOS, USB, SD, SIMCom, GSM, Ethernet, FTP)

PROJECTS (2)

Pastilda   **2016 - 2017**

⧉ https://bitbucket.org/thirdpin_team/pastilda

C++ Embedded Open-source

Open-source hardware designed to manage our credentials in handy and secure way.

Just Run My Debugger!   **2021 - Current**

⧉ https://github.com/ila-embsys/justrunmydebugger

Rust Rescript Tauri React

Pet project, simple GUI for OpenOCD debugger.

EDUCATION (2)

Master Intelligent Technologies in Robotics at ITMO University

                                                                                   2016 - 2018

Bachelor Intelligent Technologies in Robotics at ITMO University

                                                                                   2012 - 2016

LANGUAGES

English
Fluent

Russian
Native Speaker

INTERESTS

Games   ### Books   ### Traveling   ### Hobby programming

Typescript Rust Rescript