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 (2)

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

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