

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

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

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

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

2020 - 2022

- 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"

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

2013 - 2020

- 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**

[https://bitbucket.org/thirdpin\\_team/pastilda](https://bitbucket.org/thirdpin_team/pastilda)

2016 - 2017

C++

Embedded

Open-source

Open-source hardware designed to manage our credentials in handy and secure way.
- Just Run My Debugger!**

<https://github.com/ila-embsys/justrunmydebugger>

2021 - Current

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