

Dmitrii Lisin

Software Programmer, Embedded Programmer

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I'm a software engineer with a various spheres I specialized in.

→ Embedded C/C++: I began my career as an intern at an electronics design firm. I have finished a lot of embedded projects in different spheres and have dealt with numerous MCUs, instruments, protocols, and peripherals.

→ Python: Besides that, I have worked on a large Python project based on distributed micro-services connected by PubSub/RPC Web-protocol during which I had prior team leadership experience.

→ It has always been my intention to write only high-quality, human-readable code.

→ In my free time, I also prefer to extend my knowledge of programming languages, techniques, and trends by working on 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

