

Ivan Mikhailov

Senior Software Developer

PROFILE

- C++ developer with 13 years of professional experience
- Interests: low-level, performance, algorithms
- Fell in love with programming being 11 years old

EXPERIENCE

Senior Software Developer, AnyDesk Software GmbH; Stuttgart, Germany — 2019–Present

Working on the common part of a complex desktop application. Main area of responsibility: video codec. Designed and implemented several complex features and components. Performed low-level optimisation of critical parts of the code using SIMD instructions. Occasionally made some small changes in server code in Erlang.

Technologies used: C++, Linux, Assembly, Erlang, GTK.

Software Developer, Luxoft GmbH; Böblingen, Germany — 2016–2018

Worked in a large team to develop an HMI for Mercedes-Benz cars. The responsibilities included implementation of the UI according to the customer design, doing performance optimisations, working together with other teams to integrate parts of the larger system together.

Technologies used: C++, Qt, QML, Linux, Javascript.

Software Developer, Motorola Solutions; St. Petersburg, Russia — 2015

Worked on an early prototype of the Bluetooth LE MESH protocol.

Technologies used: C++, embedded.

Assembly language tutor, ITMO University, St. Petersburg, Russia — 2015

Taught x86 Assembly for one semester.

Software Developer, Stardex Oy; St. Petersburg, Russia — 2012–2014

One of three software devs in a small hardware manufacturing company. Developed a UI software and a HAL library to communicate with hardware.

Technologies used: C++, Qt, QML, MySQL, Linux, Javascript, Python.

EDUCATION

ITMO University, St. Petersburg, Russia — master of computer technology, 2014

ITMO University, St. Petersburg, Russia — bachelor of applied mathematics and informatics, 2012

imihajlow@gmail.com <https://github.com/imihajlow>
<https://qdiv.dev>

SKILLS

C++, C, Rust, Qt, QML, Linux, Bash, GDB, GIT, CMake, Python, x86 Assembly, ARM Assembly, Networking, SQL, Javascript, Erlang, Jira, Agile, HTML, Docker

LANGUAGE SKILLS

- Russian – native
- English – fluent
- German – B2

HOBBIES AND INTERESTS

In my free time in the recent years I'm mostly doing interdisciplinary projects which mix developing electronics and programming together. My largest project is a computer system (including a custom CPU) made of discrete logic gates (<https://github.com/imihajlow/ccpu>). The software part includes an optimising C compiler written in Rust (<https://github.com/imihajlow/ccpu-cc>), an assembler, an emulator and a bunch of software for the computer itself written in assembly and C (<https://github.com/imihajlow/ccpu-apps>).