



## Mike Lubinets

Senior Rust Developer

- ▶ Born in Saint-Petersburg
- ▶ Living in Berlin

## Skills

GNU/Linux 8+ yrs.



Rust 4+ yrs.



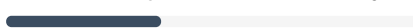
Research & Development 3+ yrs.



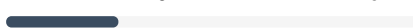
Distributed ledger technology 3+ yrs.



Web development 3+ yrs.



Embedded Systems 1+ yrs.



English C1



## About

I am a Rust enthusiast who enjoys taking part in creation of new products and making them reliable and loved.

Currently I'm looking for on-site opportunities in Germany or relocation options in other countries, which would allow me to grow professionally while I'm preparing for my MSc. I'm looking forward to fulfill myself in a job that has engaging tasks, improves my current life quality and offers compelling benefits.

If this profile fits you, you are very welcome to reach out.

## Work experience

### Senior Rust Developer

peaq GmbH

Oct/2019 - today

My main occupation at peaq was the production of the peaq DLT platform and the related products. I have been working on the smart contracts execution runtime, blockchain storage, and the implementation of the business requirements into the smart contracts running on the said platform.

Additionally, there was the management side of the job: I served as a representative of the peaq tech department in the meetings with potential clients and provided guidance and mentorship for the junior tech staff.

During my time at peaq, I have:

- successfully delivered the IoT and business logic parts of the technical PoC demo for the big partner in German automotive industry.
- designed and implemented the core layer of the blockchain-backed role based access control system, which later became the company's flagship product.
- lead the integration of the said RBAC system at the NTT datacenter, in partnership with FATH Mechatronics.
- been a part of the great hard-working team, which didn't miss a single tight deadline (and there were many!)

*Technical Stack:* Rust, C++, CLang Sanitizers, Exonum, RocksDB, GitLab CI, Docker

### Rust Developer

Ethereum Classic Labs

EVM/Compiler Team

Tooling Team

Jul/2018 - May/2019

I has been in charge of development and maintenance of the SputnikVM Ethereum Virtual Machine, as well as its integration into several Ethereum Clients, such as *go-ethereum* and *multi-geth*.

Later, I switched to the tooling team, and worked on the Rust instruments around the OpenRPC protocol definition standard.

During my time at ETCLabs, I have:

- released SputnikVM 0.11, that allowed integration of the VM into the cross-chain clients that support multiple Ethereum-based networks.
- streamlined the EVM testing framework used by SputnikVM, which allowed us to use whole Ethereum VM test suite.
- implemented support of Spurious Dragon, Byzantium and Constantinople sets of EIPs.
- maintained a number of other products implemented in Rust.

*Technical Stack:* Rust, C, Go, JsonRPC, Ethereum, Jenkins CI, Docker, Vagrant

## Education

2016 - 2018

### Computer Science (B.Sc.)

Innopolis University

GPA: 3.44

Bachelor's thesis: „Modular Language Server for SLang Programming Language“.

2014 - 2016

### Computer Science (B.Sc.)

Saint Petersburg State University of Aerospace and Instrumentation

## Projects

- **aquamarine**  
Inline diagrams for rustdoc, used by Google
- **reed-solomon-rs**  
Reed-Solomon BCH implementation in Rust
- **batch-resolver**  
Batch asynchronous DNS resolver
- **disciplinator**  
Hobby project to break sedentary lifestyle using FitBit API
- **crates.io/users/mersinvald**  
Other small libraries and tools contributed to Rust ecosystem

## Interests

- ▶ Hiking
- ▶ DIY
- ▶ Programmable Keyboards
- ▶ Cooking
- ▶ Winter Sports

## Contact

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✉ me@mk1.dev

🐙 github.com/mersinvald

### Freelance Rust Developer

Zamar AG

Oct/2017 - Jul/2018

As a freelance Rust developer I implemented a number of services for the client Airline Baggage processing system, including IATA/BagMessage protocol implementation in Rust.

Each module has been designed to be panic-free, highly reliable and performant.

*Technical Stack:* Async Rust, Tokio, SOAP, PostgreSQL

### Systems C Developer

AnP Workcell

Systems Software Team

Mar/2017 - Jul/2018

Being an intern in the Systems Software team, I have ported parts of *uclibc-ng* to the *Elbrus e2k* processor architecture, established a continuous integration infrastructure for running automation tests of the Linux Kernel and libc Elbrus builds, using Gitlab CI. The generated test reports have helped our team tremendously with keeping track of thousands of regressions.

*Technical Stack:* C, GDB, Valgrind, GNU/Linux

### Trainee Embedded C++ Developer

GK Scout

New Products R&D Team

Nov/2015 - Jul/2016

On my first job, I got the experience introductory to the embedded development with Cortex-M, and to the product software development in general.

I have had little personal responsibilities, but at the end of my employment I gained a short list of personal achievements:

- implemented a NAND-flash driver with wear-levelling and Reed-Solomon BCH based error correction.
- improved speed and reliability of the proprietary networking protocol implementation which allowed transport of 3x bigger packets on the same MCU.
- unexpectedly became an only developer on a prototype firmware project and finished it before the scheduled release date.

*Technical Stack:* Embedded C, C++, ARM Cortex-M, GDB, JTAG

## Recommendations

**Eugene Zouev**

Professor — Innopolis University

August 2019, Senior Thesis Advisor

It is my pleasure to write this letter of recommendation for Mikhail Lubinets, whom I have known for 3 years as a student of Innopolis University. I was a supervisor for Mikhail's undergraduate research and taught several classes that he took as a part of his educational program.

As a student, Mikhail always displayed a consistently high level in all of my courses and his grades are a good indicator of his abilities. However, it doesn't end there, as a truly investigative person, Mikhail always went an extra mile to extend his knowledge and skills, when interested in some topic. Having observed Mikhail in several courses ("Introduction to Programming II" and "Functional Programming and Scala"), that involve collaboration with other students, I can tell that he makes a good team player: responsible and always ready to help.

Mikhail has graduated from Innopolis with a BS thesis project "Architecture of Modular Language Server for the SLang programming language" under my supervising. During his undergraduate research, Mikhail demonstrated strong work ethic, professionalism, and high motivation. He is quite disciplined, organized person; he has never had any trouble with meeting deadlines for his assignments.

On a personal level, Mikhail can be characterized as a very sympathetic and communicative person. To sum up, I strongly recommend Mikhail as a candidate for a research or work position without any reservations.

Should you have any more questions feel free to contact me for further information.

**Alena Iureva**

MSc in Data Engineering — Jacobs University Bremen

August 2019, Fellow Student

Leading a student community is a busy and challenging thing to do, and I am happy I had Mike here nearby, with him taking care of study groups on courses he was best at, and helping out at admin stuff like planning and supplies.

He is, as well, a true enthusiast and evangelist of Rust, who eventually got me to try the language and start contributing to open-source time to time, which led me to overall wider communication with international IT community.

Mike has been leading by example, and a lot, being highly competitive and pushing us all to test our limits in abilities to accomplish better results, faster, showing example of impeccable confidence and I-can-do-it attitude. At the same time, he is always ready to help should someone be asking or seeking answers, taking his time to explain, review or give feedback.

Overall, I see him as someone who really enjoys his work and wants to acquire as much expertise at it as possible, and I still keep hearing about projects he starts in his free time, or exciting new technologies he's currently learning.

**Darcy Reno**

Managing Director at ETCDEV Team

March 2019, Direct Manager

Mike is a pleasure to work with - He has an excellent work ethic and is always looking for ways to make improvement in the product, the process and himself. I would gladly work with him in the future!