Vladimir Prokhorov

Contact

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Languages

English Intermediate

Deutsch Beginner

Skills

- C
- C++
- Linux
- STM32
- Java
- Python
- Git

Education

2018 – 2022 Jul

Department of Radio Engineering and Cybernetics,
Bachelor's degree in Applied Mathematics and Physics
Moscow Institute of Physics and Technology (MIPT) | Dolgoprudny, Russia
Department of Information Systems and Networks | Netcracker

Experience

Jul 2021 – Now

Netcracker
Junior Software Developer

- Optimized and structured for better readability the code of an existing microservice written in Java by better organization of object dependencies;
- Fixed back-end and front-end defects in platfrom components;
- Maintained the working dev environments in Kubernetes by deploying vital microservices with properly configured parameters;
- Configured API for GraphQL queries in terms of new microservice.
- Developed unit tests for new Java component with high code coverage using JUnit5.

Intensively worked with:
- Java, Angular, SpringBoot, PostgreSQL
- Microservices, k8s, REST api, Postman
- Jenkins, Git, Maven

2021, Aug

Skoltech Summer Internship

Developed independent load balancer for iPerf-based 5G speedtest service by working with my colleague using Python Flask server in combination with Docker containerization and Swagger API.

2020, Apr

NTI Hackathon
Student stream, Wireless Technologies Profile

Won first place out of 8 teams in hackathon at NTI by working with five colleagues to develop a noise-resistant algotirthm for optimal data transmission over a noisy channel.

Volunteering

2018–2021

Experience As a Teacher

Taught electrodynamics and general physics for pupils at the summer ecological school.

Electrical Engineering Experience

During hole my conscious life I tend to create different electrical devices and for the last 8 years I have been improving my skills in creating those. Starting with the very basics and Arduino, ending with STM32 and digital processing using FPGAs. During this time, I sought to understand the very essence of electronic engineering, designing and implementing printed circuit boards with my own hands. I managed to implement many interesting projects from scratch, some of which are now helping me to create complex projects brick by brick right now.

I have worked with many protocols such as SPI, I2C, UART, CAN, One-Wire, and also have extensive experience with timers, DMA, DAC, ADC. I have implemented a digital encoder algorithm for ultra-wideband noise-immune signal transmission, builded a flyback transformer with specified para-

meters, a mechanically scanned 3D display, a level detector based an accelerometer and many other small projects with interesting circuit solutions.

Computer Architecture Experience

I attended additional courses at my university that were aimed at a detailed analysis of the MIPS microarchitecture (Branch Prediction, Pipelining, Caches, etc.). Also, as part of this course, we completed practical tasks in the MIPS simulator. The course itself: https://mipt-ilab.github.io/mipt-mips/.

CISCO Computer Networks Experience

I have a good theoretical basis for understanding computer networks (dynamic routing protocols, OSI model levels, network architecture) with practical reinforcement by working in GNS3 and on real CISCO equipment.

Interests

I am in love with modern digital technologies in term of creating something new. Programming is not the only way for me to influence this entire world, electrical engineering also allows me to create new unique things. This is my hobby and I love to share my knowledge with those who are also passionate about the same thing as me. I actually love working in team and interacting with other people – it makes me feel together we build something incredible and this is amazing.