

Oleksandr Korotetskyi

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EDUCATION

Czech Technical University in Prague

Master's in Software Engineering, Faculty of Information Technologies

Prague, Czechia

Sep. 2021 – Feb. 2024

Technical University of Košice

Bachelor's in Informatics, Faculty of Electrical Engineering and Informatics

Košice, Slovakia

Sep. 2018 – Jun. 2021

Eötvös Loránd University

ERASMUS+ Exchange, Faculty of Informatics

Budapest, Hungary

Sep. 2020 – Feb. 2021

EXPERIENCE

Postgraduate Research Assistant

Pattern Recognition Department, UTIA, Czech Academy of Science

Sep. 2024 – Present

Prague, Czechia

- Exploration of pattern recognition applications in Vesuvius Challenge

E/E Development Engineer

Porsche Engineering Services s.r.o.

Oct. 2022 – Present

Prague, Czechia

- Develop, maintain & perform software integration and test strategies for automotive software systems
- Lead software feature development through requirements gathering, architecture design, and implementation
- Create and execute software unit/integration test cases and regression testing procedures
- Manage task allocation and coordinate with team members for software releases, documentation creation
- Direct communication with customer & successful delivery of developed features into Porsche Macan SOP

Embedded Systems Software Developer

ELCOM s.r.o.

Jul. 2020 – Aug. 2022

Prešov, Slovakia

- Developed embedded systems and peripheral drivers for industrial applications
- Created applications and services for Android and RTOS platforms
- Implemented cloud solution interfaces and internal CRM system components
- Collaborated within an agile (SCRUM) team environment

PROJECTS

Automotive Ethernet Signal Manipulation System | C/C++, Python, ...

Jan. 2023 – Feb. 2024

- Dean's Award for Outstanding Master's Thesis (done in collaboration with Porsche Engineering)
- Developed an innovative prototype system for ECU testing at system level (ISO 26262)
- Created a JSON RPC client-server desktop application to unobtrusively modify Automotive Ethernet traffic
- Worked with AUTOSAR, ISO/OSI model, ObjectBox and AES-128 CMAC in multi-threaded environment
- Conducted comprehensive (HiL) testing according to ASPICE V-model, statistically interpreted results

Real-time Chat App | React Native, AWS Amplify, Redis, ...

Sep 2020 – Feb. 2021

- Developed a real-time chat application for Android and iOS using React Native
- Implemented a serverless backend using AWS Amplify and Redis for caching
- Utilized WebSockets for real-time communication between users

TECHNICAL SKILLS

Languages: C/C++, Python, Bash Script, Java, C#, SQL (Postgres), TypeScript, HTML/CSS

Frameworks: Robot Framework, GTest, Pytest, JUnit, React, Node.js, Flask, Flutter, WordPress, ObjectBox

Developer Tools: Git, Docker, JIRA, AWS, VS Code, Expo, Visual Studio, PyCharm, IntelliJ, Eclipse, ChatGPT

Libraries: OpenMP, MPI, PyQt5, pandas, NumPy, Matplotlib

Certifications: C++ Certified Professional Programmer, C Certified Professional Programmer

LANGUAGES

Native: Russian

Fluent: Ukrainian (C2), English (C1)

Professional: Slovak (B2), Czech (B2)

Basic: German (A1)