



PROFILE

Results-oriented Embedded Software Engineer with more than ten years of experience in analysis, design, development, testing, and implementation of various embedded systems. Highly proficient in C/C++, with a large toolbox of more specialized languages as needed. Interested in difficult tasks and exciting projects.

SKILLS

- **General:** Development of Embedded Systems, software development in Linux Kernel/User space, development of multithreaded applications, device drivers, customization of Embedded Linux distributions, low level programming.
- **Programming Languages:** C/C++ (STL, Boost), Rust, Golang, Bash, Python, Lua, Assembly, dts, Objective C, Swift, Java, Kotlin, Dart, DSL, js, xTend, xText.
- **Debugging:** JTAG, GDB, serial, mocking, simulating and modelling (Matlab/LabView/Proteus), oscilloscope etc.
- **Platforms:** UNIX/Linux/iOS/Android, Flutter, ARM, MSP430, AVR. **Bootloaders:** Barebox, Das U-Boot.
- **Cloud:** AWS, GCP. **DevOps:** Docker, Kubernetes, Terraform, Skaffold, Kustomize. **MLOps:** Kubeflow.
- **Build Systems:** Yocto Project (Bitbake), Buildroot, make, CMake.
- **Revision Control:** Git, subversion.
- **Interfaces:** UART/RS232, I2C, SPI etc. **Networking:** TCP/IP, UDP, TLS. **Protocols:** MQTT.
- **Languages:** English (fluent), German (B2), Russian (native), Ukrainian (native).

EXPERIENCE

07/2019-PRESENT

LATROCK GMBH

CO-FOUNDER, CEO

- Consultancy in IT and R&D projects.
- Launching next-gen IoT and ML products.

07/2017-PRESENT

BRITA GMBH

LEAD SOFTWARE ENGINEER

- Architecture, design and development of the new software platform for different new products in the company.
- Setting up the team and flexible development environment from scratch.
- Implemented and coached Scrum/Kanban in R&D.
- Technical guidance and team coaching.
- Management of external and internal developers.

06/2016-12/2019

FREELANCER

SOFTWARE CONSULTANT

- Embedded Linux Development for a new mass market kitchen appliance.
- Architecture, design and development of a new Linux build system based on Yocto Project from scratch.
- Maintenance of BSP, software and Linux Distribution layers for Yocto Project for a new product.
- Development and maintenance of SDK.
- Introducing best practices for using Git and Yocto in IoT Project.

10/2015-06/2017

CONTINENTAL AG

SOFTWARE ARCHITECT

- Architecture, design and development of a new flagship project of interior division.
- Participation in "AUTOSAR Adaptive Platform" technical board in "Methodology and Manifest" domain.
- Architecture, design and development of a framework based on "GENIVI" and "AUTOSAR Adaptive Platform" standard.
- Design of peripheral abstraction layer for one of the main software platform of interior division.
- Development of behavioural DSL for device driver development.
- Introducing best practices for using Yocto Project.

02/2013-09/2015

G.I.N. GMBH

SOFTWARE DEVELOPER

- Development of embedded logging systems for the automotive industry.
- Software development in Linux Kernel/User space - programming, scripting, debugging, testing, code reviewing, support of QA team, deploying, release planning etc.
- Linux Kernel development and customization, board support development for boot loaders, writing device-tree (dts) files for Linux Kernel and Barebox.
- Development of server/client API, communication protocols, multithreaded applications, user scripts, power failure critical software, DirectC based software to flash FPGA and maintenance of BSP for OpenOCD.
- Maintenance of BSP layer for Yocto Project as well as maintenance of Buildroot repository.
- Integration and management of Git repositories.

09/2011-02/2013

JSC "PROTECTION AND SECURITY"

EMBEDDED DEVELOPER

- Software and hardware development of embedded systems in security field.
- Development and implementation of software associated with radio transceivers.
- Development of RFID devices (Reader, Tag) for automatic authentication of a driver.

05/2011-09/2011

PRIVJSC "ELAKS"

ELECTRONICS ENGINEER

- Development of control systems and HMI based on Allen-Bradley products.
- Development of a programmable logic controller (PLC) based on the processor IPC @ CHIP Beck GmbH.

EDUCATION

2006-2012

MSc (honors), Electronic/Electrical Engineer
National Technical University "KhPI"
Kharkiv, Ukraine

2012

Certificate MITx Circuits and Electronics 6.002x
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