

Oleg Kolosov

Software Engineer

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Profile A versatile and goal-oriented professional with extensive knowledge of software defect analysis, maintenance and support. Led multiple teams and seen through projects from prototype to production during more than 15 years of industry experience covering automotive, financial and medical domains.

Skills C++, C, some Rust, Lua, Bash; focusing on embedded Linux

Experience Mobica Limited Sp. z o.o. Oddział w Polsce since Jan 2022
Expert Engineer

Firmware development for thermal vision cameras

Leading a team developing a firmware for multiple thermal imaging, measurement and diagnostic products for a major US manufacturer.

HARMAN Connected Services Poland Sp. z o.o. Sep 2016 → Dec 2021
Senior Software Engineer

OTA-FC post SoP support for Porsche

Responsible for OTA Self Update, Module Platform API and RedBend's Software Management Client functional domains. Focusing mainly on defect root cause analysis and stability improvements.

NTG7 Head Unit for Daimler (Mercedes-Benz)

Integration of RedBend's software with the NTG7 project, refactoring of legacy code, introducing modern C++ coding practices.

HARMAN Spark for AT&T

Created a fault-tolerant IPC solution based on ZeroMQ and Cap'n Proto for an initial integration of TCU Shield project acquired with TowerSec which later became HARMAN Spark platform.

IVI 2020 Head Unit for PSA (Peugeot Citroën)

Extending GENIVI's Automotive Message Broker with vendor-specific messages, CommonAPI interfaces and automated testing capabilities.

Designed and implemented a CAN bus scripting tool with a domain-specific language for automated defect reproduction.

Art System Technologies (OOO "Арт Систем") Dec 2012 → Aug 2016
Software Engineer

Development of an embedded Linux firmware and a hardware-accelerated multimedia stack for karaoke set top boxes on Sigma Designs (MIPS) and HiSilicon (ARM) platforms. Linux kernel driver development (UART, I2C, SPI). Hardware bring-up and vendor BSPs integration.

Created and open sourced tools to ease establishment and maintenance of a continuous integration infrastructure: Jagen, Spawn.

Auriga, Inc. (ООО "Аурига")
Software Engineer

Dec 2011 → Dec 2012

Development of a firmware for a medical patient monitoring device (MCU) from Mindray using C# and C++ on Windows Embedded platform.

Implemented a mobile news reader application for Intel using Sencha Touch framework for iOS and Android platforms.

eSignal /
ООО "Адвансед Трейдинг Десктопс" /
ООО "МалтиЧартс"
Quality Assurance Engineer

Nov 2009 → Dec 2011

Created a test automation framework with support for white- and black-box testing of eSignal desktop application using C# and C++/CLI.

Developed a fully-automated performance testing and reporting platform with integration into an existing CI infrastructure (Atlassian Bamboo and JIRA).

Software Technologies /
ООО "Программные Технологии"
System Administrator

Nov 2006 → Apr 2009

Production infrastructure management, hardware and software systems setup and monitoring, technical support.

Education

Southern Federal University
M.Sc. Computer Engineering

Sep 2006 → Jun 2008

Researched applicability of cluster computing for different tasks such as distributed compilation and solving of differential equations.

Taganrog State University of Radio Engineering
B.Sc. Computer Engineering

Sep 2002 → Jun 2006

Created a LiveCD Linux distribution which allowed to turn a networked lab into a computer cluster for MPI/PVM development.