

# Oleg Kolosov

## Expert Engineer

Łódź, Poland  
job@bazurbat.net  
<https://github.com/bazurbat>  
<https://linkedin.com/in/oleg-kolosov>

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**Profile** A versatile and goal-oriented professional with over 15 years of experience spanning financial, medical, automotive, consumer electronics, and industrial instrumentation domains. Led cross-functional teams and seen through multiple projects from prototype to production. Possess extensive knowledge of embedded firmware development using C and C++ in Linux and real-time environments including kernel drivers and bare-metal development.

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**Skills** C, C++, some Rust, Python, Lua, Bash; embedded Linux, RTEMS  
Team Leadership and Project Management experience

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

Technical lead and project manager's roles for a team developing a firmware for thermal vision cameras and multimeters. Requirements coordination, tasks, and release planning, quantifying team performance. Also designing and implementing modules requiring special expertise: Wi-Fi, Bluetooth, RTEMS device drivers using SPI, I2C, UART and vendor-specific proprietary protocols.

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

Development and maintenance of Self Update / Remote Update functions of Head Unit firmware for Daimler (NTG7) and Porsche (OTA-FC). Extending GENIVI Automotive Message Broker with vendor-specific messages, CommonAPI interfaces and automated testing capabilities for PSA (Peugeot Citroën) in IVI 2020 project. Introduction of modern C++ coding practices.

Led a team from a concept to production of a HARMAN Spark project (Android-based OBD port dongle).

Created a CAN bus scripting tool with a domain-specific language for automated defect reproduction. Designed and implemented a fault-tolerant IPC solution based on ZeroMQ and Cap'n Proto.

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**Art System Technologies (ООО "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.

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*Omitted.* Nov 2006 → Dec 2012

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**Education** **Southern Federal University** Sep 2006 → Jun 2008  
*M.Sc. Computer Engineering*

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**Taganrog State University of Radio Engineering** Sep 2002 → Jun 2006  
*B.Sc. Computer Engineering*

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