

## Contacts

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## Skills

IBM z/OS, Embedded  
Linux, ARM  
C/C++ (system-level),  
C#, Java, Python,  
HLASM, Verilog,  
MATLAB  
REST, gRPC,  
OpenTelemetry  
Valgrind, Wireshark,  
IPCS, z/XDC  
Git, Jenkins

## Languages

English (C1)  
Lithuanian (A2)  
Ukrainian (native)  
Russian (native)

## Hobbies

Classical guitar  
Night driving  
3D printing  
Bicycling

# OLEKSANDR HUBANOV

Dum spíro, spéro

System-level Principal Software Engineer with product ownership experience and deep expertise in performance-critical C/C++ systems across embedded platforms and IBM z/OS environments. Leads architecture, modernizes legacy systems, and mentors engineers while delivering reliable, scalable monitoring and diagnostic solutions.

## Experience

**Rocket Software** Vilnius, Lithuania  
*Principal Software Engineer* Mar 2025 – Present

- Lead architecture and technical direction for performance-critical monitoring and diagnostic components in IBM z/OS and hybrid environments.
- Act as a technical authority across teams, unblocking complex issues involving dumps, diagnostics, protocols, and legacy codebases.
- Mentor engineers and drive cross-team collaboration, raising system-level expertise and delivering reliable, scalable solutions.

*Senior Software Engineer* Apr 2023 – Mar 2025

- Led modernization of legacy mainframe tooling, introducing RESTful interfaces while preserving performance and reliability guarantees.
- Contributed to architectural decisions and implementation of system-level components in C/C++ and Java within mainframe monitoring systems.
- Actively supported less experienced engineers through code reviews, design discussions, and debugging of complex issues.

*Software Engineer III / II* Dec 2020 – Apr 2023

- Developed performance-sensitive C/C++ and HLASM components for the OMEGAMON monitoring suite on IBM z/OS.
- Worked extensively with system dumps, protocol handling, and low-level diagnostic tooling.
- Improved delivery reliability through CI/CD contributions.

**Sonderus** Vilnius, Lithuania  
*Software Developer* Jul 2019 – Dec 2020

- Developed embedded C/C++ software and Linux kernel modules for system-level tools.

**Precizika Metrology** Vilnius, Lithuania  
*Engineer Programmer* Oct 2017 – Jul 2019

- Designed firmware and calibration systems for precision linear encoders.
- Developed signal processing tools and supporting PCBs for nanometer-level measurement accuracy.

**Vilnius Gediminas Technical University** Vilnius, Lithuania  
*Junior Researcher* Nov 2016 – Aug 2017

- Supported biomechanics research projects using MATLAB and signal analysis.

**Various Roles (Freelance, Part-time)** Kharkiv, Ukraine  
*System Admin / Electrician / Developer* 2008 – 2016

- Early technical roles in system administration, hardware support, and embedded integration, building a strong foundation in operating systems and networking.

## Education

**Vilnius Gediminas Technical University (VILNIUS TECH)** Vilnius, Lithuania

*PhD Studies in Biomechanics (paid scholarship, not completed)* 2017 – 2022

- Conducted research in soft tissue biomechanics and EMG signal analysis.
- Mentored junior PhD students and contributed to academic publications.

**Kharkiv National University of Radioelectronics** Kharkiv, Ukraine

*Master's in Biomedical Engineering* 2014 – 2016

*Bachelor's in Biomedical Engineering (paid scholarship)* 2011 – 2014

- Focused on medical signal processing and biomedical systems.

**Kharkiv College of Medical Equipment** Kharkiv, Ukraine

*Specialist Diploma in Medical Electronics Design (Honors)* 2008 – 2011

- Focused on medical electronics, diagnostics, and servicing of electronic medical devices.

## Publications

- Gubanov A., Zhemchuzhkina T., Nosova T., Nosova Y.  
*On the Methods of Registration of Biosignals for Human Interface Device.*  
19th International Youth Forum "Radio Electronics and Youth in the XXI Century".
- Gubanov A., Zhemchuzhkina T., Nosova T., Nosova Y.  
*Some Technological Solutions of Realization of Human Interface Device.*  
Bulletin of NTU "KhPI", 2015, 62(1171), pp. 52–57. ISSN 2079-5459.
- Gubanov A., Zhemchuzhkina T., Nosova T., Nosova Y.  
*Data Processing Electromyographic Module.*  
Shevchenkivska Vesna 2015: Radiophysics. Electronics. Computer Systems.
- T.V. Zhemchuzhkina, T.V. Nosova, Y.V. Nosova, A.V. Gubanov et al.  
*Statistical Analysis of the Spectral Characteristics of the EMG Signal for the Purpose of Differentiation of Lumbar Pain.*  
Bionics of Intelligence, No. 2(85), 2015, pp. 105–108.