Oleksandr Hubanov

Dum spíro, spéro

Contacts

alex@0x0h.com
+370 602 21388
Github: alexgubanow
Linkedin: alexgubanow

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

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, 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.