

# Serhij Symonenko

**born:** Sep 7 1981

**nationality:** Czech Republic

**speaking languages:** Czech, English, Ukrainian, Russian

**Education:** Lviv Polytechnic National University, MSc in Computer Science

**Speciality:** Artificial Intelligence and Electrical Engineering  
(confirmed in EU by Czech Technical University in Prague)

mail: [s@g5.is](mailto:s@g5.is)

phone: +420 212 248 818

## Primary skills:

- Experience in IT/Electronics: since 1994
- Back-end (Rust, Python, Java, C++, JavaScript, TypeScript, Linux advanced shell scripting)
- Front-end (Vanilla JS, React, WASM, Leptos)
- Virtualization engineer (VMWare VSphere, Citrix XenServer, Microsoft Hyper-V, KVM)
- HMI/SCADA/MES/DCS developer/integrator
- PLC programmer (IEC 61131-3 ST/FBD/SFC)
- Field buses: Modbus/1-Wire/CIP (EthernetIP)/TwinCAT/ADS/OPC-UA/IEC 60870-5 (104/104), IEC 61850 etc.
- DevOps (Solaris, Linux, Windows Server)
- Network engineer (Cisco, HPE, QLogic, Mikrotik)
- Storage engineer (ZFS, BTRFS)
- Hardware engineer (PC hardware, industrial computing, common electrics/electronics, embedded systems)
- Data engineer (Oracle, PostgreSQL, Timescale, InfluxDB)
- Microservices (Docker/Kubernetes)
- Cloud integrations (AWS/GCP/Azure)
- AI & Machine learning (Keras/Tensorflow)
- CI/CD (Jenkins, GitLab, GitHub, custom software)

## Solutions:

- Project core design/architecture
- API (RESTful/JSON RPC/custom) and Framework development
- Load balancing/HA (Cisco, HAProxy, NGINX, custom solutions)
- Storage strategies for Big data
- Custom research tasks (own laboratory/outsource)
- Electrical engineering: grid design/support (up to 1000V)
- Industrial automation (CODESYS, EVA ICS, industrial hardware)
- CI/CD automation (Ansible/Git/Kubernetes etc.)
- Automated financial accounting: 1C Enterprise 8, Microsoft Excel VBA, own frameworks.

## Licenses

- Manufacture of electronic components, electrical equipment and manufacture and repair of electrical machinery, apparatus and electronic equipment operating at low voltage (CZ)
- Manufacture, installation, repair of electrical machinery and apparatus, electronic and telecommunications equipment (CZ)

## **Experience**

### **Sole trader (IT engineering) (Czech Republic)**

Aug 2018 – Present

### **CTO/managing partner**

**Bohemia Automation (UK, Czech Republic) [www.bohemia-automation.com](http://www.bohemia-automation.com)**

Jun 2021 – Present

**Altertech Group (Czech Republic, Ukraine) [www.altertech.com](http://www.altertech.com)**

February 2004 – Present

### **Virtualization engineer / DevOps**

**Positive Software Corp. (Ukraine) [www.psoft.net](http://www.psoft.net) (currently part of Parallels Intl. GmbH)**

September 2001 – January 2004 (2 years 5 months)

**Other:** professional sound engineer