

Petr Zankov

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Summary

Specialization Systems software engineer

Skills Assembler, C, Linux, Windows

Experience

2017–present **Software engineer**, *CodeTickler SARL*, Lausanne, Switzerland.

Developing a software to secure data against exfiltration, compromise, and ransomware.

2014–2017 **Software engineer**, *Dependable Systems Lab, EPFL*, Lausanne, Switzerland.

Implemented a memory bugs detection technique based on S²E symbolic execution engine.

2012–2014 **Software engineer**, *LLC "WISE-Technique"*, Zhukovskij, Russia.

I developed microkernel real time operating system with ARINC 653 and POSIX(partial) layers. Following features were implemented from scratch:

- OS kernel
- Multi-arch and multi-core support for PowerPC and IA-32
- Drivers for PCI, SATA, Ethernet
- Debugging environment (based on KVM and GDB)

2012–2012 **Software engineer**, *FSUE "Flight Research Center"*, Zhukovskij, Russia.

I migrated 3D rendering engine from X11 to Wayland. Also enhanced performance by reimplementing functions using SIMD instructions.

2008–2012 **Software engineer**, *JSC "V.V. Tikhomirov Scientific Research Institute of Instrument Design"*, Zhukovskij, Russia.

I developed software for civil sonar data acquisition and analysis. Full software stack starting from FPGA firmware and up to GUI applications was implemented.

Education

2011 **Master of Applied Mathematics and Physics**, *Moscow Institute of Physics and Technology*, Russia.

Languages

English Upper Intermediate

Russian Native

Last update: April 19, 2018