

Vitaly Petrov

Software Engineer

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Summary

SW engineer. Interested in
Simulation and virtualization,
Embedded,
RTOS and UNIX like systems (Kernel, internals e.t.c.),
Cryptography,
Cloud systems and PaaS. (System side).

Skills

- Simics
 - Software Development
 - Shell Scripting
 - C++
 - C
 - Python
 - Information Security
 - System Software
 - DML
 - X86 Virtualization
 - Kernel Drivers
 - x86/ARM Assembly
 - Kernel Debugging
 - Linux
 - BIOS
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Experience

R&D Engineer at Broadcom Inc.

June 2018 - Present

Tel Aviv Area, Israel

Developing FW and tools for WiFi/BT chips. Researching for new protocol enhancements.

Software Engineer at Intel Corporation

August 2016 - June 2018

Haifa Area, Israel

Continued work on Simics Models. Work on the WhiteBox models of both X86 and non-x86 platforms.

Participated in:

USB/Type-C Controller

ThunderBolt

ISH (Integrated Sensor Hub)

And some still covered by NDA.

Worked on:

- Model development (C/C++/Python/SystemC)
- Internal Tools and Code Generators
- Infra improvements and automation
- Codebase cleanup (Participation)
- Ramping up colleagues in new fields and with new IP.

Software engineer at Intel Corporation

Sep 2010 – Aug 2016 (6 yrs)

Moscow, Russian Federation

It was a Joint Position: First year as a DevOps engineer and Lab Owner inside of constantly growing team, Later
- Software developer of Simics functional software simulator and It's Modules

SW role:

- Development in C, C++, Python, DML
- BIOS/FW BringUps on PreSi Simulator in Dev Stage
- Debugging and reverse engineering of System code and OSES
- Windows/Linux/VxWorks/OpenRTOS/FreeRTOS/Meego/Android enabling on new platforms
- Sole ownership and leading of ISH device model and it's model development.
- Drivers, FW, and Software, their enabling.
- Dev Tools development

DevOps role:

- Started CI Based on Jenkins for the newly created team
- Participation in Build-test-package-release framework development
- Support of full HW infrastructure
- Key communication point between the Developers and IT service
- Full standardization of the Lab's facilities
- Internal and global Information Security Audit processes (Technical and formal parts)

Support and infrastructure system administration of 6 Labs for different internal business units.

Contact with Lab Owners for understanding of their needs.

- Linux/Windows Servers.
- AD/VAS/Kerberos
- Systems Provisioning
- Developers tools maintenance

Later Relocated to Israel to continue my SW Engineer role.

System Administrator at Mail.Ru

Apr 2010 – Sep 2010 (6 mos)

Moscow, Russian Federation

Support and maintenance of the company's internal and external technical capacities and Monitoring of their work. Storage BackEnds for Mail, Photo and Video Hosting.

Technical Support Engineer at RosBusinessConsulting

July 2008 - Apr 2010 (1 year 10 months)

Second Line Technical Support of external customers, incident management, system administration of virtual platforms.

Education

Moscow State University of Instrument Engineering and Computer Sciences (MGUPI)

Master's degree, Information Security, 2008 - 2013

System Analysis school

Associate, System Analysis in Systems and software development, 2011 - 2011

Languages

- **English** - Full professional proficiency
 - **Français** - Limited working proficiency
 - **Russian** - Native or bilingual proficiency
 - **עברית** - Limited working proficiency
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Honors and Awards

Group Recognition Award

In recognition of cross-group collaboration in creating early software deliverables for Rangeley boot loader (Intel® Firmware Support Package + Coreboot) on top of Simics as required by Ericsson SMX Blade design win

Volunteer Experience & Causes

Intel Corporation

Entertainment of children in NY events for orphans.

Wanted to try myself in this activity. Interesting, but hard.