

# Stanislav Fomichev

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Software Engineer with experience in low-level/embedded systems and Linux Kernel internals/drivers.

## Experience

*Sep 2015 - Present*

### Systems Engineer

Google

- Working on a system which horizontally scales containers
- Working on performance optimization projects

*Aug 2013 - Aug 2015*

### Software Engineer (Linux Kernel)

Yandex

- Contributed to Yandex Linux kernel tree, which included bug fixes and various performance improvement projects
- Submitted 20+ patches to [upstream Linux kernel tree](#)
- Improved tools for Linux Kernel performance analysis ([perf timechart](#) / [perf trace](#))
- Implemented initial version of [Porto](#), Linux container management system

*Sep 2008 - Aug 2013*

### Software Engineer (Embedded)

EPSCoM AG

Consulting for [Lantiq Deutschland GmbH](#):

- Implemented complete OMCI (ITU G.984.4/G.988) protocol stack in userspace for MIPS evaluation board
- Implemented U-boot and Linux drivers (NAND/SPI flashes, GPIO, I2C, SPI, parts of Ethernet and GPON drivers)
- Ported OMCI application, GPON and various BSP drivers (Ethernet, SPI, NOR, Watchdog) to [eCos](#) operating system

## Education

*2008 - 2013*

[National research nuclear university "MEPhI" \(Moscow\)](#)  
M.S.E., Computer Engineering

## Skills

*Programming Languages*

Experienced: C, C++, Go, Shell scripting  
Familiar: Python, Ruby, HTML/CSS/JavaScript, SQL

*Software and tools*

GNU toolchain, Make, GDB, Autotools, Diff, Patch, Quilt  
Experienced with distributed version control using Git and Mercurial

*Operating systems and environments*

Understanding of Linux kernel/system internals and main networking protocols  
Understanding of computer systems and CPU internals  
Excellent problem-solving and debugging abilities, including troubleshooting of large-scale distributed systems