

Serge Ziryukin

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📄 github.com/ftvrxmtrx

Education

2003–2008 **B.S.**, *Belarusian State University of Informatics and Radioelectronics*, Minsk, *Computers, Systems and Networks*.

BS thesis

title *Microkernel operating system based on L4 specification.*

supervisors Gleceвич I.I.

description Two main types of kernels (monolithic and μ) are described and compared, showing μ -kernel drawbacks and benefits. L4-based μ -kernel implementation for x86 and MIPS is provided, its loading/execution process and APIs are described.

Most used development tools

Languages	C, OCaml, Erlang, C++, Shell
Op. systems	Arch Linux, Mac OS X, FreeBSD
Documentation	Doxygen, ocamlidoc, L ^A T _E X
Build systems	CMake, GNU Make, qmake
SCM	Git, Mercurial, SVN
IDE	Emacs, XCode
WM	xmonad

Languages

English **Intermediate**

Experience

Vocational

2011– **Software Engineer**, *PowerMeMobile*, Minsk.
Telecom billing.

- Built on Erlang/OTP.
- Mnesia, rebar, bitcask, log4erl, etc.

- 2010 **Software Engineer**, *Synesis*, Minsk.
HAL for NEC devboard.
- In-kernel RTP/RTCP support implementation;
 - Tests in Python.
- 2010 **Software Engineer**, *Synesis*, Minsk.
Porting DVB-T software to NEC devboard.
- Porting U-Boot to the devboard;
 - Porting Linux to the devboard;
 - MIPS binaries reverse-engineering;
 - Porting DVB-T software and platform-specific bugfixing;
 - Minimizing and putting the whole firmware into 8Mb flash device;
 - CMake build system.
- 2010–2011 **Software Engineer**, *Synesis*, Minsk.
iPhone VoIP app (<http://viber.com>).
- Bugfixing;
 - Helper tools for developers.
- 2008–2010 **Software Engineer**, *Synesis*, Minsk.
iPhone game development.
- Porting existing games to the iPhone platform.
- 2008 **Software Engineer**, *Synesis*, Minsk.
OpenGL-based UI tech demo for Freescale i.MX31 PDK.
- The tech demo.
- 2008 **Software Engineer**, *Synesis*, Minsk.
Porting previous project to Fujitsu board.
- Cross-compiler toolchain;
 - Providing a way to run and test the software;
 - Adding Fujitsu board (with proprietary RTOS running on it) support to middleware.
- 2008 **Software Engineer**, *Synesis*, Minsk.
DVB-T set-top box cross-platform software for three different boards.
- Cross-platform middleware API design and implementation;
 - TI-DM6446 (with Linux running on it) specific middleware implementation;
 - Build system.

- 2007–2008 **Software Engineer**, *Synesis*, Minsk.
DVB-S Linux-based set-top box (ST7109) software.
- Tests in Python;
 - Extending automatic testing framework;
 - Bug fixing;
 - Screens;
 - Automatic software update functionality and tools.

Interests

- Programming <http://github.com/ftrvxmtrx>
<http://ohloh.net/accounts/ftrvxmtrx>
- Problem solving <http://projecteuler.net/profile/ftrvxmtrx.png>
<http://spoj.pl/users/ftrvxmtrx>
- Photography <http://picasaweb.google.com/ftrvxmtrx>
- Music <http://last.fm/user/i515i>
- Games Quake I/II/III, UT99, Scrabble, Warcraft II, etc

Personal information

- Age 24
- Marital status married
- Kids no