



## Vitaly Minko

Born on November 20, 1985,  
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### Free Software

#### Personal projects

**Dscuss** is a discussion application for [GNUnet](#). Written in C. It's the current project I'm working on in free time.

**cms.sh** is a minimalistic web content management system with command line administration interface, which allows user to manage and publish text documents (in MultiMarkdown format), images and videos. Written in Perl and Shell.

**F5er** is a daemon, which allows user to receive notifications about changes in web pages, which do not offer a built-in RSS support. Written in Perl.

#### Patches

[Contribution](#) to various Free Software project including Vim, SDL, Empathy, GNUnet and others. Most of the patches are included into upstream.

### Employment

#### [RADICO](#) Ltd.

September, 2011 – present time      Senior Software Developer

- Design and implementation of cross-platform (GNU/Linux and Windows) network gateways for radiation monitoring systems. The gateways convert data between various industrial protocols (for example, from the internal RADICO protocol called Radtp to the [MODBUS](#) protocol). Written in C++ using the Boost libraries.
- Design of a protocol for sharing serial port of a computer in a TCP/IP network. The protocol encapsulates an underlying protocol as a payload, supports setting priorities, timeouts and serial port settings for each client. Implementation of both client and server parts for GNU/Linux in C++ using the Boost libraries.

#### [ISB](#) Ltd.

February, 2009 – July, 2009      Software Developer

Design and implementation of an IM communication system with a web-interface. Server part is based on [libpurple](#) and written in C and Perl (TemplateToolkit engine). Client part - in JavaScript (jQuery framework).

#### Intech (subcontractor of [XIM](#) Corp.)

November, 2007– February, 2009      Software Developer

For [Slide](#) Inc.:

Implementation of the Quizz and Puzzle features of TopFriends - a social network application for MySpace, Hi5 and Orkut. Written in Python (Cheetah template engine) and JavaScript (jQuery framework).

For [Openwave](#) Inc.:

- Implementation of UI widgets used in Openwave mobile applications: messenger, web browser and the like (JavaScript).

- Bug fixing of the Openwave mobile web browser: the elements rendering library and the image processing library (C++).
- Design and implementation of a system for automatic simulator compilation according to passed source code branch, configuration, VCS revision, etc. Written in Perl and JavaScript.

February, 2006 – November, 2007      Test Plan Developer

Development of automated test cases for the BTE environment covering the following:

- Specifications: XHTML 1.0, DOM2, CSS 2.1, BiDi, TLS 1.0.
- Openwave MMS-messaging client.

May, 2005 – February, 2006      QA Engineer

Automated and manual testing of the Openwave mobile browser and messaging client in the special Openwave testing environments based on a group of servers (HTTP, Proxy, SMS, etc.).

## Computer skills

- Operating systems: UNIX (GNU, Solaris - 10-year experience), Windows (5-year experience);
- Programming languages:
  - good: C, C++ ([Brainbench certificate](#)), Perl;
  - medium: JavaScript, Shell, Python, Pascal;
  - basic: Java, Assembler (x86), Scheme, Prolog;
- Programming technologies:
  - parallel computing: multithreading (pthreads, boost::thread, WinAPI), cluster computing (MPI);
  - networking (Berkeley sockets, boost::asio);
- Network
  - protocols: TCP/IP, HTTP, WAP, SMS/MMS, SMTP, FTP, TLS/SSL;
  - tools: Wireshark, tcpdump, iptables;
  - servers: Apache, vsftpd, dhcpd, Exim+DBMail, OpenSSH, Git;
- Data bases:
  - Conceptual design, SQL;
  - DBMS: PostgreSQL, MySQL, SQLite, MS Access;
- Markup technologies: (x)HTML, CSS, XPath, XML;
- Development tools: gcc, gdb, valgrind, autotools, cmake;
- Development environments: Vim, Eclipse, NetBeans, Borland IDE, Microsoft Visual Studio;
- Version control systems: Git, SVN, CVS, P4;
- Bug tracking systems: Bugzilla, Mantis, Trac, Jira, ITS (internal OpenWave system);

## Education

September, 2006 – June, 2008

[Obninsk State Technical University for Nuclear Power Engineering](#) (branch of [National Research Nuclear University MEPhI](#))

- Master's degree in Computer Science.
- Thesis title: «Application of distributed computing to the calculation of isotope-concentration dynamics.».
- Honours degree with distinction.

September, 2002 – June, 2006

[Obninsk State Technical University for Nuclear Power Engineering](#) (branch of [National Research Nuclear University MEPhI](#))

- Bachelor's degree in Computer Science.
- Honours degree with distinction.
- Faculty of cybernetics.

## Languages

- English — advanced.
- German — basic.