

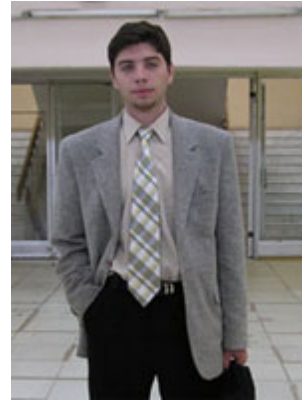
Dmitry Zelenkovsky

PERSONAL DATA

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ADDRESS

Silicon Valley, Bay Area
CA, USA

EDUCATION

2004-2008 St.-Petersburg State University. Postgraduate student. Ph.D thesis subject: "Max-Flow search algorithm optimization". Ph.D is incomplete.

1999-2004 St-Petersburg State University. Faculty of Mathematics & Mechanics. Applied Mathematics department. Diploma with Honor.

1996-1999 Private School with mathematics specification in Sosnovy Bor.

INTERESTS

Experienced software enthusiast with ability to think in terms of product. Capable of creating a team or helping existing team to focus on results. Hands on software developer, open-source for business advocate and entrepreneur.

- Making complex things simple
- Applications with rich UI
- Algorithm Optimization

Specialties: Open source, Networks, Linux, Web and Mobile Marketing

EXPERIENCE

LG Electronics (2016-nowdays)

Description:

Developing virtual cockpit and Car Simulator based on AGL Linux and Unity3D for CES 2018.

Supported platforms: AGL Linux, Windows

Role & Responsibilities:

Team lead, software developer and SCRUM master.

Used tools: Unity3D, C/C++, Qt/QML, JavaScript, AGL Linux, Docker, GIT

Related links:

[CES2018 Car Simulator + AGL, LG Silicon Valley Lab](#)

LG Electronics (2014-2016)

Description:

WebOS on smart TV, create stunning UI for next generation of LG Smart TV with Qt, QML and OpenGL.

Supported platforms: WebOS, Linux

Role & Responsibilities:

SCRUM master & software developer, facilitating daily SCRUM activities, tracking dependencies, helping team members to achieve goals. Sharing critical development tasks and do innovation studies. Serial Hackathon winner.

Used tools: C/C++, Qt/QML, JavaScript, Linux, GIT, Atlassian Suite

Related links:

[Smart TV webOS](#)

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Related links:

[Smart TV webOS](#)

Seed4.Me VPN (2013-nowday)

Description:

Co-founder of Seed4.Me Inc. A VPN service provider with global server infrastructure in more than 15 countries around the world. Provides a secure Internet connection in public places for more than 1M users.

Supported platforms: Windows, Linux, MacOS, iOS, Android

Role & Responsibilities:

Bootstrapping the company from the ground zero and growing it up to the team of 5 people. Scaled distributed VPN server network to handle hundreds of terabytes data flow per month.

Here/Nokia Maps Core (2013-2014)

Description:

Developing tools for processing map data in the cloud. parallel computing of "big data", diff/patch algorithms, statistics.

Supported platforms: Windows, Linux

Role & Responsibilities:

Algorithm development, performance optimization, release cycle and configuration management.

Used tools: C/C++, Mercurial

Related links:

[Here Maps](#)

Nokia Car Mode (2012-2013)

Description:

Bringing mobile experience to the Car. Developing new technology to extend car connectivity using Windows Phone in new Nokia products.

Supported platforms: Windows Phone, MeeGo

Role & Responsibilities:

Team lead and scrum master of the Car Mode project. Technical advisory, architecture and development. Configuration management, integration and Scrum planing.

Used tools: C/C++, Qt, Dbus, Scratchbox, GIT, ScrumWorks Pro

Related links:

[MirrorLink Technology](#)

[Nokia Car Mode](#)

Nokia N9 FM Radio (2012)

Description:

Private project FM Radio is the best selling application for Nokia N9 phone. It unlocks FM receiver functionality and allows to record radio broadcasts. Application supports two skins, automatic channel scanning, unlimited number of favourite channels, loudspeaker mode, tuner control with headset and etc.

Supported platforms: Nokia N9

Role & Responsibilities:

Design and promotion, technical advisory, testing and requirements management. Support during full application life-cycle.

Used tools: Photoshop, Web Analytics, HTML, PHP, C/C++, Qt/QML, Gstreamer, GIT.

Related links:

[Nokia N9 FM Radio](#)

[FM Radio in OVI Store](#)

MeeGo Platform Development (2010-2012)

Description:

Nokia and Intel announced MeeGo platform as the cutting edge technology in the mobile industry. MeeGo takes all the best from Moblin and Maemo platforms and provides: accelerated, gesture oriented user interface; web browsing experience; real-time communications; social networks integration; PIM management and much more...

Multimedia Messaging is one of key features in the whole platform.

Implementation requires low level protocol development, integration to the Real-Time Communication Framework and rich experience UI development as well.

Source code quality was another goal of the project. To achieve that goal comprehensive unit test coverage has been developed. Verification of proper client signaling, message PDU parsing and work of transmission queue was done automatically.

Supported platforms: MeeGo (Harmattan)

Role & Responsibilities:

Architect, team lead and scrum master of the MMS project. Technical advisory, architecture and development. Configuration management, integration and Scrum planning. Certified Scrum Master.

Used tools: C/C++, Qt, Dbus, Scratchbox, GIT, ScrumWorks Pro

Related links:

[MeeGo Platform](#)

[Nokia N9](#)

Maemo Platform Development (2008-2010)

Description:

Maemo is an Open Source operating system based on Linux. Attractive UI and feature rich functionality. Last official Maemo release 5.0 with codename Fremantle has full internet browsing support, Skype, Gtalk and SIP integration, flexible PIM management, email application, synchronization with Microsoft Exchange server support and many other features.

Nokia actively drives Maemo developer's community and promotes open source way of doing software. A lot of third party applications are developed for Maemo or ported from existing Linux distributions by community members.

Supported platforms: Maemo 5.0 (Fremantle), Hardware N900

Role & Responsibilities:

Supporting E-mail backend component and platform integration, Developing and improving quality of Synchronization Framework, System wide performance analysis and optimization, Power consumption analysis and optimization.

Used tools: C/C++, Qt, QMF, Scratchbox, GIT.

Related links:

[Maemo Platform](#)

[Nokia N900 Phone](#)

Motorola Bluetooth (2006-2008)

Description:

[Motorola Bluetooth](#) is a complete Bluetooth 3.0 protocol stack for PC with 19 supported profiles. It successfully passed [Bluetooth qualification](#) and Microsoft driver certification. [Motorola Bluetooth](#) has better throughput and power consumption than main competitors like WIDCOMM, IVT, Toshiba and Microsoft. Software introduces outstanding rich GUI interface with **function oriented** approach. It hides all Bluetooth complexity from the user and provides simple and clear way to send files, print images, answer phone calls, listen to music and getting internet access.

[Motorola Bluetooth](#) is an award winning solution, recognized by [Bluetooth SIG](#) as the Best Bluetooth 3.0 software for PC. See [data sheet](#) for more information.

WKD, COM, ATL, STL, ActiveX, JavaScript were used as main development tools. Following techniques were used: design-patterns, RAII, multi-threading, unit-testing, self-documented code, IPC and some others.

Supported platforms: Windows XP(x32/x64), Windows Vista(x32/x64), Windows 7(x32/x64). About 30 supported languages.

Role & Responsibilities:

Project Technical leader. Making architectural decisions, negotiations with customer on technical topics, configuration management, software development, driver development.

Used tools: C/C++, STL, MFC, ATL, COM, WDK.

Related links:

[Motorola Bluetooth](#)

[Bluetooth SIG](#)

Motorola Messenger Modem (2005-2006)

Description:

Motorola Messenger Modem is a software VoIP router. It allows VoIP call forwarding from internet to PSTN and vice versa. It has flexible voice menu and nice GUI. Project consists of two parts: application and driver.

Driver is responsible for audio stream forwarding and phone line management (dialing numbers, answering, homologation and etc.)

Application is responsible for call signaling, voice services (like answering machine, mail box, call waiting and etc.) Also application has fancy GUI which allows forwarding rules manipulation, event log examination and etc.

Qt library was used as a main tool for development. Following techniques were used: design-patterns, event-driven programming, multi-threading, localization (up to 8 supported languages with Traditional and Simplified Chinese), Qt Plug-ins, Qt-Styles, Qt-XML, IPC, self-documented code.

Supported platforms: Windows XP(x32/x64), Windows Vista(x32/x64), Windows 2000(x32).

Role & Responsibilities:

Technical Leader. Responsible for application development. Making architecture decisions, configuration management, application development.

Used tools: C/C++, STL, MFC, Qt, MSXML, SkinCrafter.

Related links:

[Motorola Messenger Modem](#)

SoftDSL (2004-2005)

Description:

SoftDSL is a software implementation of low-level protocols for ADSL lines. It is formed as ordinary ATM NDIS driver for Windows. Purpose of the project provides soft ADSL modem with following features support: G.Lite+ modulation, ATM, QoS, PPPoATM, IPoATM.

Role & Responsibilities:

Software Developer. Network protocols stack development, DSP algorithm development, driver development.

Used tools: C, DDK, MS Build tools.

Related links:

[Motorola SoftDSL](#)

AltiVec project - software optimization (2003-2004)

Description:

AltiVec is a SIMD extension for PowerPC G4 processor. Project was intended for promoting AltiVec technology on embedded and desktop processor's market. Test measurements were performed on both (embedded & desktop) processor editions.

Following open source software were optimized:

- JPEG codec (libJPEG),
- MPEG II Layer 3 (libMPEG),
- MPEG-4 (AVC H.264),
- Pre-print processing (ghostscript),
- 2D and 3D acceleration (STL frame-buffer, Mesa OpenGL).

Role & Responsibilities:

Software Developer. Algorithm development, optimization, report preparation.

Used tools: gcc, GNU Build tools, Linux (Yellow Dog)

Related links:

www.freescale.com

www.eembc.org

SKILLS

Core Competence:

Software Development	advanced
Agile Process & Methodology	advanced
Mobile Marketing	advanced
Lean Startup	basic

Technologies:

Bluetooth Protocols and Profiles	advanced
SIMD Software Optimization	advanced
GUI Design and Development	advanced
Networks and Protocols	advanced
Web Technologies	advanced
Windows Driver Development	advanced
Embedded Programming	intermediate
Digital Signal Processing	basic

Tools:

C/C++	advanced (STL/MFC/Qt)
Perl	advanced
PHP	advanced
Tcl	intermediate
Matlab	intermediate

mySQL	advanced
PostgreSQL	intermediate

Operating Systems:

Linux(*NIX)	advanced
Win(9x/Vista)	advanced
iOS Platform	intermediate
Android Platform	intermediate

PhotoShop	advanced
Msoffice	advanced

LANGUAGES

- Russian (native)
- English

INTEREST & ACTIVITIES

Collecting music, making photos, riding bike, playing the trumpet and the guitar.

Last updated: 2012-09-12