

Alexey Mednonogov

M.Sc. (Tech.), M.Sc. (CS)

Software engineer

alexey@mednonogov.ru

Katajankatu 15 B 9

53810 Lappeenranta, Finland

Phone: +358 50 360 5359

<http://www.mednonogov.ru/alexey>

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Date of birth:

27.9.1977

WORK EXPERIENCE

- February 2001 – present (August 2012) **Software engineer, chief software engineer at OpenTTCN Oy**, a TTCN-3, TTCN-2 and ASN.1 test tool vendor, in Lappeenranta, Finland:
- XML Schema to TTCN-3 converter, TTCN-2 to TTCN-3 converter
 - cross-platform SDK for ANSI C, C++, C# and Java (Windows and Linux)
 - Eclipse-based IDE and debugger, GFT reports, XML and HTML reports, documentation generator, web-based code browser and test campaign manager, MFC GUI, Java Swing GUI
 - in-house CRM with web front-end and SQL back-end, company website design, Python scripts, wiki pages, license server and licensing mechanisms
 - XML codec, ASN.1 BER and PER codecs, domain-specific protocol codecs and network interface code for testing (SIP, V5, DSRC, XMPP, SNMP, NETCONF etc.)
 - cross-platform TTCN-3, TTCN-2 and ASN.1 compiler and run-time
 - profiling, memory leak detection and performance optimisations
 - product documentation, technical documentation
 - technical support
 - training courses instructor, workshop instructor
 - helping other team members with their assignments
 - language at work in daily use is English
- September 2000 – February 2001 **Research assistant at Lappeenranta University of Technology**, IT department, Information Processing lab, in Lappeenranta:
- research and development of a GUI for CORBA-based testing facility in Java
- June 1999 – September 2000 **Research assistant at Helsinki University of Technology**, Telecommunications Software and Multimedia lab, in Lappeenranta:
- development of a generic CORBA/TTCN gateway for CORBA/IDL testing
 - as OSPF testing team lead: OSPF test purposes, test suite and gateway
 - architectural design, IDL interfaces for CMF proto in IPMAN project
- 1996 – 1998 **ZAO ProTechn**, training position in St. Petersburg, Russia:
- parabolic mirrors measurement results processing and statistical analysis, design and implementation of intelligent algorithms for measurement tasks

HOBBYIST PROJECTS

Rodovichok.ru – online family tree builder and family encyclopedia with selective article access rights control. A web-based hobbyist project running since 2006 that everybody can use for free, with some 800 registered users. Technologies used during development: HTML, JavaScript, SQL, PHP, CSS. Deployment platform: Debian Linux.

Client-server real-time online game: MS Silverlight for .NET is used in the client's browser, C++/TCP sockets/Linux are used on the server side; proprietary protocol is designed for message exchange.

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EDUCATION

2000	M.Sc. (Tech.) (Diplomi-insinööri) received from Lappeenranta University of Technology, Department of Information Technology
2000	M.Sc. (CS) (Engineer's diploma) received from St. Petersburg State Electrotechnical University, Faculty of Computer Science

SKILLS

Languages	C, C++, Java, C#, PHP, Python, SQL, TTCN-3, TTCN-2, ASN.1, shell scripts
Technologies	HTML, CSS, JavaScript, XML, XML Schema, XPath, XQuery, XML DOM, CORBA, IDL, TCP, UDP, JNI, Swing/JFC, Eclipse, MFC, MS .NET WPF, SSH.NET, STL, boost, pthreads, sockets
Tools	<ul style="list-style-type: none">• network server admin: BIND/named/exim4, sendmail, cron, xinetd• web server admin: apache, Zope, MediaWiki, phpBB• issue tracking, configuration management: SVN, JIRA, makefile• compilers, editors: MS Visual Studio, MonoDevelop, Eclipse, JBuilder• database management: MySQL• communication middleware: IIOP.NET, JacORB, ORBacus, MICO, omniORB• parser generators: JavaCC, yacc, flex, Eclipse Xtext• performance profiling, memory leak detection: GlowCode, Intel VTune Amplifier
Archived	DOS, OS/2, Solaris, Pascal, Basic, Visual Basic, Perl, MS Access, Mathcad, Matlab, AutoCad, x86 assembly language, GD library, SWIG, Borland C++, Z80 assembly language, computer graphics, game design, 3D, neural networks, statistical analysis, AI

Fluent in programming. Strong mathematical background.

LANGUAGES

Russian – mother tongue, English – fluent, Finnish – can read, write and talk

MISCELLANEOUS

B driving license; married; non-smoking; distinguished school-leaving certificate

HOBBIES

Family, music composition, aikido, travelling

PUBLICATIONS

Publications dedicated to image processing and conformance testing in scientific journals (IJAR) and conference proceedings (TestCom, GraphiCon, ICPR).