

# Resume for Sergey Zubkov

Address: 1202 Stonybrook Rd. Lake Grove NY 11755

Phone: (661) 532-8224

Email: cubbi@cubbi.com

## Objective:

To apply my education and expertise in modern C++ design to challenging projects ranging from scientific or financial computation-heavy software to industrial hard real-time applications.

## Skills and tools:

*Programming languages:* Expert knowledge of C++ (STL, TR1, C++0x, C++11, boost), C (C90, C99). Familiar with: awk, sh, SQL (Oracle, Postgress, MySQL) Pro\*C, Core Java, Java/Swing, Python, sed, tcl/tk, perl, assembly (x86, sparc, ppc, mips, alpha), APL, J, Forth, Fortran, Scheme, OCaml

*Operating systems:* Linux (including realtime), LynxOS, Familiar with: SGI Irix, Solaris, FreeBSD, SunOS, Windows.

*Hardware:* Intel x86, x86-based SBC and PC104 systems. Past experience with: SGI, Motorola MPC, MCP, VMPC, MVME, CVME, MBX, and other CPCI boards, Intel XScale.

## Work experience:

**Lead Software Engineer** at [Telvent Caseta](#), Long Island City NY. *October 2004 - current*

*Accomplishments:* Designed, developed, tested, released, and maintained the core and critical components of electronic toll collection systems used in six states of the USA, including the largest toll collection system in the world.

*Skills:* Modern C++ design, C++ development with TR1, Boost, and C++11, development, testing, and maintenance of real-time data-intensive applications in multiplatform environment. Multithreaded real-time programming.

**Postdoctoral Researcher** at Department of Biochemistry and Cell Biology, [SUNY Stony Brook](#), Stony Brook NY. *November 2002 - September 2004*

*Accomplishments:* Solved NMR structures of a 142-residue protein, 32-res. membrane protein and 8-residue neuropeptide.

*Skills:* Development of data processing, computational, and statistical software in tcl/tk, awk, and perl on SGI IRIX.

**Software Developer** at [Auriga, Inc.](#), Moscow, Russia, contracting at [Broadvision, Inc.](#), Redwood City, CA. *February 2002 - September 2002*

*Accomplishments:* Implemented fixes and enhancements in Broadvision One-to-One Content Manager and Enterprise Server products.

*Skills:* Large project (over 10,000 classes) development in C++/MFC in Microsoft Windows and in C++ in multiplatform UNIX environment

**Continuation Engineer** at [LinuxWorks, Inc.](#), San Jose, CA. *November 2000 - January 2002*

*Accomplishments:* Implemented fixes and enhancements in Lynx Real Time OS and BlueCat Embedded Linux OS. Built and tested new OS patches and service packs.

*Skills:* Kernel-level system software engineering using C, C++, and multiplatform assembly languages. RCS and SCCS source control. Comprehensive software and system testing.

**Senior Teacher of Computer Science** at [Department of Material Science](#), Moscow State University, Moscow, Russia. *March 2000 - May 2002*: part time

*Accomplishments*: Developed a modern computers science/programming course. Taught 1st and 2nd year students.

*Skills*: Teaching of computer programming and algorithms using C, C++, Java, Delphi, perl.

**Software Developer** at The Best Applied NMR, Moscow, Russia. *June 1998 - November 2000*: part time

*Accomplishments*: Designed and developed the majority of data processing and GUI software.

*Skills*: Application development in C and Java on Linux and SGI IRIX.

**Writer and Editor** at [DMK Press](#), Moscow, Russia. *April 1998 - November 2000*: part time

*Accomplishments*: Reviewed, edited, and wrote books on software development and Linux.

*Skills*: Technical writing, knowledge of Linux, C++, Java, and computer science.

### **Computer science publications:**

- S. V. Zubkov, Assembler for DOS, Windows, and UNIX (in Russian, 1999, 640 pages, ISBN 5-89818-019-2)
- S. V. Zubkov. Assembler for DOS, Windows, and UNIX 2nd edition (in Russian, 2000, 608 pages, ISBN 5-89818-082-6, 5-94074-003-0)
- S. V. Zubkov. Assembler for DOS, Windows, and UNIX 3rd edition (in Russian, 2004, 608 pages, ISBN 5-94074-259-9)
- S. V. Zubkov. Linux: Russian versions (in Russian, 2000, 346 pages, ISBN 5-94074-013-8)
- Technical editor of the Russian translation of: K. Petzke, Linux: understanding and application, 2000, 576 pages, ISBN-5-93700-004-8
- Technical editor of the Russian translation of S. Meyers, Effective C++, 2000. 240 pages, ISBN 5-93700-006-4

Also published 10 scientific publications in chemistry and biochemistry.

### **Education:**

Moscow State University, Department of Chemistry PhD in Organic Chemistry, June 2002

Moscow State University, Department of Material Science M.S., with honors, in Chemistry of Materials, January 1998 (GPA 3.94/4.0)

### **Certifications:**

*Brainbench Master certificates* (Brainbench ID [5471](#)): C++ Fundamentals, C++, C, Programming Concepts, Linux Programming, Java 6.

*Brainbench Job Role/BCIP certificates*: Computer Programmer, C++ Programmer,

**Spoken languages**: English, Russian.

This resume is available online at <http://cubbi.com/resume.html>

11/1/2011