

Artyom Beilis (Tonkikh) – Curriculum Vitae

Objective: *A challenging position in the state-of-the-art system or application software design environment.*

Experience:

- Tel Aviv Stock Exchange** **Software Development**
2007 – Present
– Design & development of the migration of the trading engine from OpenVMS to Linux platform. *IT Awards 2015 winning project.*
- outsourcing via Teramips Technologies*
– Architecture design and development of various trading system aspects: storage I/O, networking, lock-free IPC, transactions, high availability, in-memory indexing, caching.
– Design and development of custom network protocols, transparent protocol migration.
– Design and development of complex benchmarking systems and operating system tuning: storage I/O, IPC, networking, etc, system performance monitoring and reporting.
- Teramips Technologies** **Design, development and deployment of all the technological aspects for Linicom start-up.**
2013 – 2014
– Leading a software development team both locally and via oDesk.
– Design of high performance advertisement engine based on CppCMS Technology
– Deployment of highly loaded web service at Amazon EC2.
- TransChip** **Algorithms Development – Image Signal Processing**
2003 – 2007
– Color analysis and processing, noise analysis and suppression, distortions corrections, despeckle filters design, DSP pipeline simulation, statistics in DSP collections, HDR image acquisition.
– RT algorithms development in embedded environment for camera-on-chip systems.
– *US Patent 8,134,619* for design of fixed pattern column noise correction algorithm.

My Open Source Projects:

- CppCMS** High performance C++ web framework. Leading C++ web technology deployed at: high performance web systems, embedded systems and used as integrated web interface.
Since 2007 Dual LGPLv3 and commercial licenses.
- Boost.Locale** High quality localization library for Boost and CppCMS. Accepted into Boost in 2011.
Since 2009 Boost License.
- Others**
- CppDB* C++ SQL connectivity library
 - MakeAHMap* Terrain generation for a flight simulator using: SRTM3, GlobCover, GSHHS
 - Boost.Nowide* UTF-8 friendly standard library API for Windows
 - BidiTex* Unicode Bidi algorithm support for LaTeX
 - Kazit 3* Hebrew oriented Linux LiveCD (not maintained any more)

Also contributed to other projects: SOCI, Boost, SVNKit and others

Education:

- 2008 – 2012 **M.Sc. in Computer Science, Tel-Aviv University.**
Thesis: *Correction of Motion Distortion for In-Vivo Low Frame-Rate Confocal Microscopy*
Supervisor: Prof. Lior Wolf, Machine Learning and Computer Vision Research Group.
- 2004 – 2008 **B.Sc. in Mathematics and Computer Science (cum laude), Tel-Aviv University.**
- 2000 **International Physics Olympiad** in UK. *Winner of a Bronze medal for the Israeli team.*

Skills:

- Languages* C++, C++11, C, Python, Java, Matlab, Bash, DCL, PHP, Perl, C#, FORTRAN, Assembly x86, Z80
- Data Bases* Sqlite3, PostgreSQL, MySQL, MSSQL, BerkeleyDB
- Platforms* Linux, Windows, OpenVMS, BSD, Solaris, Darwin, Embedded-Systems
- From the Toolbox* Multi-processor programming, Image Signal Processing, Physical Processes Simulation, Web Development, Unicode, Localization, POSIX & Win32 API, OOP, Scripting, Test-Automation, Compiler Design, Subversion, Swing, Qt, Boost, Valgrind.
- Other Languages* Hebrew, English, Russian and Ukrainian.

Personal:

- E-Mail:* artyomtnk@yahoo.com *Birth Date:* 1981
- On The Web:* artyom.cppcms.com, blog.cppcms.com *Hobbies:* Aviation, Flight Simulation, Salsa