

# Buranov Georgy

**Software developer, Avira**

## Accepting interesting C++ and Ruby on Rails offers

LinkedIn profile <http://www.linkedin.com/in/gburanov>

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### Contacts

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**Permanent residence:** Tettnang, Germany

**Open for reallocation**

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### Summary

More than 11 years of commercial software development for Europe or US established companies. Working for both software (Quest Software, Acronis) and non-software (Reuters) companies. Working for both companies that create their own solutions (Acronis, Quest Software, Avira) and outsource (Reuters).

Working experience in two countries with different cultures - Russia and Germany

Ability to work on all three main platforms, although at home I use Ubuntu as desktop OS and OSX as laptop OS.

Knowledge of agile methodologies.

Ability to create, understand and implement design specifications. Ability to solve complicated problems.

Ability to quickly understand new code and start contributing without significant delay.

Good communicative skills. Every day communicating with English-speaking management.

Working with huge amount of legacy code.

Open-source experience (Chromium browser). Ability both to understand existing design and to contribute to the open-source (sometimes by finding golden middle)

Ability to work in team. Wide experience in using collaborative software: repositories, bug tracking systems, review systems.

Ability to automate jobs routine jobs using scripting.

Most experienced in C++, although can use .NET framework and Java as well. Other languages (include Ruby, Haskell) were not used in commercial programming - only for self-development.

Wide use of automated testing (unit tests, functional tests). Unit testing of legacy code.

Last two years I have partly switched to Ruby on Rails framework in my spare time. I have finished several projects, and have quite good experience now. So, I am accepting not only C++ offers, but also Ruby on Rails offers if they sound interesting

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### Technical Environment

<b>Operating systems</b>	<p><b>Windows</b> - wide experience.  * Good knoweledge of Booting mechanism  * Good knoweledge of disk management</p> <p><b>Linux</b> – wide experience (Alt Linux, Ubuntu, RedHat, SLES)  * Understanding of booting mechanism  * gdb debugging  * bash (ability to automate tasks)</p> <p><b>OSX</b> - wide expirience.  Expirience to write kernel extensions</p>
<b>Languages</b>	<p><b>C/C++</b> - 11 years experience  <b>Ruby, Python</b> – moderate experience  <b>Java, C#, Haskell, Javascript</b> – basic experience</p>
<b>Programming styles</b>	<p><b>OOP</b> - C++, C#, Java  <b>Functional programming</b> - C++(templates), Haskell  <b>Dynamically typed languages</b> - Ruby, Javascript, Python</p>
<b>Collaboration tools</b>	<p><b>Repositories:</b> SVN, CVS, Git  <b>Bug tracking systems:</b> TrackIt, Clarify, Bugzilla, Jira, Redmine  <b>Code review systems:</b> Code collaborator  <b>Full stack solutions:</b> Atlassian stack (Jira, Bamboo, Stash, Confluence)</p>
<b>OOP</b>	<b>Knowledge of design Patterns</b>
<b>Technologies</b>	<p><b>Win32API, Unicode</b> – wide experience  <b>COM, ATL</b> - wide experience  <b>Jet Blue Engine</b> – wide experience  <b>Hard Drives Partitioning (GPT, MBR, LDM, LVM)</b> - wide expirience  <b>Windows Storage Spaces</b> - wide expirience  <b>Bootability (BIOS, UEFI, MBR, loading stages, GRUB, NTLDR, WBM)</b> - wide expirience  <b>Boost, Multi-threading</b> – moderate experience  OSX kernel extensions - moderate experience</p>
<b>Testing tools</b>	<p><b>jUnit, xUnit, NUnit, cppUnit</b> - different languages unit testing tools  <b>Cucumber</b> - functional testing</p>
<b>Virtualization</b>	<b>VMWare, ESX 4.0, ESX 5.0, Parallels desktop</b>
<b>IDE</b>	<b>Visual Studio (2010, 2005, 2003), Eclipse, GDB, Aptana Studio</b>
<b>Other development tools</b>	<p>Tools for refactoring - <b>Devpartner, Simian, Gflags</b>  UML Tools - <b>Rational Rose, Microsoft Visio</b>  <b>cygwin, gcc</b></p>
<b>Other Software</b>	<p>Web Servers – <b>IIS</b> (wide experience). Collecting information for IIS in Axensis moscow  Mail Servers – <b>Exchange Server</b> (wide experience). Working with Exchange database in Quest software  <b>Acronis products</b> - expert user</p>

## Career history

## **Nov 2014 - Until now**

**Company** Avira <http://www.avira.com>  
**Position** Software Developer  
**Project** Browser Project

### **Responsibilities**

- Browser based on Chromium
- Starting new project completely from scratch
- Creating project environment (build tools, scripts, documentation)

### **Gained knowledge**

- Working with really HUGE amount of legacy code
  - Ability to inject your code in correct place in quite small amount of time
  - Advanced GIT (merging to constantly developing open-source and back)
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## **Sep 2013 - Until now**

**Company** Avira <http://www.avira.com>  
**Position** Software Developer  
**Project** Unix and OsX software developer

### **Responsibilities**

- Avira Rescue System (Ubuntu based system for rescue booting and restoring your OS)
- OsX version of Avira products
- Responsible for maintaining (and writing new code) for kernel extension (driver)

### **Gained knowledge**

- Agile software development approach
  - Legacy code unit tests coverage
  - New code unit test coverage
  - Working with GIT
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## **Aug 2011 - May 2013**

**Company** Acronis <http://www.acronis.com>  
**Position** Senior Software Developer

**Project** UEFI

**Project Description** Investigation of new booting mechanism (UEFI)

UEFI is a new way of booting computers (instead of old BIOS way). I was responsible for investigation and coding all the stuff company need to support it.

### **Responsibilities**

- Investigation of new booting mechanism
- Fix "Bootability restore" module for UEFI
- UEFI loader
- Understanding, documentation and coding of UEFI boot mechanism for both Windows and Linux
- Multiplatform solution

**Project** Bootability detect/restore

Acronis products need to detect and fix OS bootability as a part of data restore.

**Project Description** Detecting/restoring different OSes bootability (different Linux versions, Windows)

### **Responsibilities**

- Bootability investigation (all levels, from MBR to kernel loading)
- refactoring + maintaining code
- Multiplatform solution

**Project** Universal Restore

**Project Description** Fixing Windows/Linux bootability when restoring to different hardware

Acronis products need to be able to fix OS (add drivers, etc) when restoring archive to dissimilar hardware

### **Responsibilities**

- Code documentation and support

**Project** Low level libraries  
Support a huge amount of low level code.

**Project Description** Legacy code support + writing new low level stuff

**Responsibilities**

- Support huge amount of low level legacy code
- Code documentation
- Maintenance of LDM, MBR, GPT support libraries

**Project** Fdisk library (actually also part of low level libraries, but the biggest one)  
Fdisk library has about the same functionality as Linux fdisk. It is the base core library of all Acronis products: ABR, ATIH, ADD. Using this library the product really do all the backup/restores. Support of different disk types (MBR, GPT), LDM, LVM, MD, different alignments, etc

**Project Description** Support + new functionality for fdisk library

**Responsibilities**

- Code documentation
- Maintenance of LDM, MBR, GPT libraries
- Implementing Storage spaces support (new Windows 8/2012 feature)
- Multiplatform solution

**Achievements** Acronis is a very big company. We have more than 100 developers in Moscow. Working in low level team means a lot of communication, so I really improved my communication skills. This involves a lot of consultations of the code is actually working, meeting, helping new people in our group to be the part of the team, etc. Huge codebase of legacy code to support, but also adding completely new libraries to low level code. Delivering tasks on time. Working with really big amount of code. Our team (only 3 people) is responsible for most part of low level code.

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## Sep 2008 - Aug 2011

**Company** Acronis <http://www.acronis.com>

**Position** Software Developer

**Project** Acronis Scheduler  
Acronis needs multiplatform scheduling service for starting tasks (backups, verification, etc.) at special timepoint (start computer, logoff user, every monday, etc)

**Project Description** Multiplatform module for task scheduling (Windows, Linux, Mac).

**Responsibilities**

- Multiplatform development&debugging (Windows, Linux, Mac)
- Module for task scheduling, based on cron (Linux), LaunchAgent (Mac) and Windows Service (Windows)

**Project** Low level libraries  
See Senior Software Developer for Acronis

**Project** Bootability detect/restore  
See Senior Software Developer for Acronis

**Project** Universal Restore  
See Senior Software Developer for Acronis

**Achievements** Acronis is a very big company. We have more than 100 developers in Moscow. Working in low level team means a lot of communication, so I really improved my communication skills. This involves a lot of consultations of the code is actually working, meeting, helping new people in our group to be the part of the team, etc. Huge codebase of legacy code to support, but also adding completely new libraries to low level code. Delivering tasks on time. Working with really big amount of code. Our team (only 3 people) is responsible for most part of low level code.

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## Jan 2007 - Sep 2008

**Company** Allied Testing <http://www.alliedtesting.com/>  
**Position** Software Developer  
**Project** Reuters  
Reuters got a huge platform for dealing with different finance aspects Reuters 3000 Xtra. We were responsible for Calculators plugin. It was calculating market values using predefined templates.  
**Project Description** Plug-in for Reuters Xtra (Calculators)  
<https://customers.reuters.com/community/3000Xtrav51Whatsnew/fixedincome/build/calculators.aspx>

#### Responsibilities

- Time scheduling
- Every day connecting to Paris office
- Huge amount of code supporting
- Working with bank software (more security and code check)
- Invention of unit testing (JUnit library)

**Achievements** Huge codebase to support. Management functions: Everyday communication with office in Paris. Banking software => more secure code, more checks, etc.

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#### May 2005 – July 2006

**Company** Quest Software (now part of Dell) <http://www.quest.com/>  
**Position** Software Developer  
**Project** Recovery Manager for Exchange <http://www.quest.com/recovery-manager-for-exchange/>  
**Project Description** Recovers data from Exchange store. Support case without server.

#### Responsibilities

- Designing Object-Oriented library for Jet Blue Engine.
- CRUD API for working with Exchange store (Read, Write, Update, Delete)
- Layer over the library – for using with managed code.
- Reading messages from store without Exchange Server (No-SQL Jet Blue Database)

**Achievements** Studying design patterns, creation of OO libraries from scratch.

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#### Dec 2003 – May 2005

**Company** Axensis Moscow <http://axensis.com/company/>  
**Position** Software Developer  
**Project** Auditor (system information collector) <http://www.ecora.com/Ecora/>  
**Project Description** IIS collection module

#### Responsibilities

- Developing GUI using Qt
- DB Storage modification (SQL, C#)
- Integration with other modules using COM
- Collection IIS information
- Improvement of special language for collection (in short, C++ code generation language, based on XML, XSLT)

**Achievements** My first job as a software developer. Studying STL, Boost, Qt. Working with SVN, bug tracking system.

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#### Jul 2002 – August 2003

**Company** Logrus  
**Position** QA  
**Project Description** Manual (70%) and Automated (30%) testing. Logrus was responsible for localization of huge software projects, like Microsoft Windows and Lotus Notes  
**Achievements** Working for not full time in a big company I gained knowledge of different processes going on in big companies

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#### Sep 2002 – Feb 2004

**Company** MEPHI 26 department  
**Position** Software developer  
**Project Description** Payment module for car detection system. It was used for some time on several car

parkings in Moscow.

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## Languages

- Russian - Native
- English – Upper Intermediate
- German - Intermediate (B 2)
- Spanish - Beginner (A2.1)

## Language certificates

- IELTS cetificate 7.0 total

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## Education

- **Sep 1995 - Sep 1998**  
FMSH 2 (Physical and mathematical school)
- **Sep 1998 – Feb 2004**  
MEPHI (Moscow Engineering Physical Institute)
- **Nov 2007 - Mar 2008**  
Financial math trainings (Allied Testing)

## IT courses

- **Apr 2008 - Sep 2008**  
Project Management trainings (Allied Testing)
- **Jan 2012 - Apr 2012**  
Software as a service (SAAS). Online Berkeley course <https://class.coursera.org/saas>
- **Oct 2012 - Dec 2012**  
Compilers. Online Stanford course <https://www.coursera.org/course/compilers>
- **Jan 2013 - Feb 2013**  
Game theory. Online Stanford course <https://class.coursera.org/gametheory-2012-002/class>
- **Feb 2013 - Mar 2013**  
Algorithms. Online Prineston course <https://class.coursera.org/algs4partI-002/class>
- **Apr 2013 - May 2013**  
Algorithms. Online Prineston course. Part 2. <https://class.coursera.org/algs4partII-001/class/index>

## Language courses

- **Sep 2004 – May 2005**  
English courses (Upper Intermediate)
- **Sep 2005 – Sep 2007**  
German courses (Intermediate, Goethe institute, Moscow)

- **Sep 2013 - March 2014**  
German courses (Avira, Tettnang)
- **Jan 2010 - Jan 2011**  
Spanish courses (Beginner, Cervantes institute, Moscow)
- **Jan 2012 - Jun 2012**  
Arabic courses