

Ivan Starodubtsev

Senior C/Linux Software Engineer



Personal info

- **Date of birth:** November 13, 1986
- **Family status:** married, 1 child

Executive Summary

- Linux software developer with strong **user space** development experience and basic **kernel space** development experience in C/C++ using all available GNU/Linux & UNIX tools.
- Overall experience in software development counts all years from **2010** till present.
- Experience in full software development process using different tools for version control, building the project code, code review, debug, automation, applications profiling etc.

Technical Skills

Software Skills Category	Skill Sub Category
Functional Area	Software engineering and development primarily for embedded systems with/for Linux or other operating systems
Software Development Methodologies	Agile, Scrum, TDD
Programming Languages	C/C++(basic)/Java (basic)/Python (basic)/Lua (basic)/Bash/Sh
Operating Systems	Linux (host, target)/Windows (host)/VxWorks (target)/QNX (target)
Network	TCP/IP, UDP protocols
VCS	ClearCase, SVN, git (repo-git-gerrit-jenkins/branching model)
Development Tools	All available from GNU/Linux system environment (coreutils/binutils/gcc/gdb/make etc.) and other widely spread UNIX tools, custom and highly specialized scripting tools, MathCAD, MATLAB/Simulink, Coverity, Valgrind
Standardized Technologies	MPEG, DVB(-S/T/C), HDTV, POSIX
Specific Libraries	Cairo 2D graphics library, Skia 2D graphics library, libpcap
Other software skills	Unit testing, Test cases development, Linux administration, DevOps (basics), Project infrastructure creation and maintaining using different tools
Additional Skills Category	Skill Sub Category
Academic skills	Mathematics (Higher and Calculus, Discrete, Statistical), Physics, Radioelectronics, Analogue and Digital Circuitry, Computer Science, Automation and Control Theory
Personal skills	<i>Inquiring Mind, "Can-do" Attitude to Solving Tasks</i>

Foreign language skills

Skill Category	Spoken	Written
English	Upper-intermediate	Upper-intermediate

Education

Entity:	KhAI (Kharkiv Aviation Institute), Kharkiv, Ukraine
Dates attended:	September 2004 - February 2010
Qualifications:	Master's Degree
Faculty:	Radio Technical Systems of Aircraft
Specialization area:	Electronics and Telecommunications

Professional Experience Summary

- **Company:** "Insart Ltd.", Ukraine, Kharkiv, 18 Gudanova str.
Duration: August 2015 – Present
Role: Senior Software Engineer
Project Description: Security device application for smart homes/IoT protection, System applications
Responsibilities: Applications development, Build system development, Code review, Bugs/Issues fixing, Project specific tools development, Profiling of applications
Technologies (common): C/C++, GNU/Linux/Debian, ARM, MIPS, GCC, GDB, Valgrind, Bootloaders, Command line interface, make build systems, shell scripting, TCP/IP, tcpdump.
- **Company:** LLC "EchoStar Ukraine", Ukraine, Kharkiv, 63 Kolomens'ka str.
Duration: July 2013 – July 2015
Role: Software Engineer
Project Description: Set-top boxes user applications, System applications
Responsibilities: Applications development, Build system development, Code review, Bugs/Issues fixing, Unit testing and test cases development, Project documentations development, Project specific tools development, Profiling of applications
Technologies (common): C/C++, GNU/Linux, ARM, MIPS, GCC, GDB, Valgrind, Bootloaders, Command line interface, make build systems, shell scripting, Unit testing, Software security/encryption aspects, TCP/IP.
Technologies (proprietary): Broadcom SDK (Nexus)
- **Company:** GlobalLogic, Ukraine, Lviv, 26 Sheptytskykh str.
Duration: December 2012 – June 2013
Role: Software Engineer
Project Description: Board support package (BSP)
Responsibilities: Device drivers development, Build system development, Code review, Bugs/Issues fixing, Project specific tools development, Project documentations development
Technologies (common): C, VxWorks, ARM, GCC, Bootloaders, make build systems, shell scripting
Technologies (proprietary): WindRiver workbench environment
- **Company:** LLC "EchoStar Ukraine", Ukraine, Kharkiv, 63 Kolomens'ka str.
Duration: November 2011 – November 2012
Role: Software Engineer
Project Description: Set-top boxes automated test system applications, System applications
Responsibilities: Applications development, Build system development, Code review, Bugs/Issues fixing, Project documentations development
Technologies (common): C/C++, GNU/Linux, ARM, MIPS, GCC, GDB, Bootloaders, Command line interface, make build systems, shell scripting
Technologies (proprietary): Broadcom SDK (Nexus)
- **Company:** PJSC SRPA "Impulse", Ukraine, Luhansk region, Severodonetsk, Pobedy sq. 2
Duration: April 2010 – October 2011
Role: Software Engineer
Project Description: Instrumentation & control (I&C) systems for automation of large industrial facilities (nuclear/heat power plants, railway transportation automated management centers & systems)
Responsibilities: Instrumentation & control (I&C) systems software development, Project documentations development, Product functional testing
Technologies (common): C, ARM, Cortex-M3, STMicroelectronics STM32 MCUs, IAR Embedded Workbench for ARM, Device drivers development
Technologies (proprietary): I&C systems engineering technology in area of railway transportation