

Sergey Bryukov, 1978

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**M.Sc. in Computer Science**

No restrictions on movement across EU

Full stack specialist for IoT, cloud and algorithms project with 15 years background

[GitHub](#) [LinkedIn](#) [Facebook](#) [Youtube](#)

CTO, Project Lead, Senior Engineer

With experience in software project driving in up to 500 manpower resources.

With focus on Cloud, BigData, Blockchain and Digital Assets Management

Huge amount of code developed for cryptocurrency exchange and asset management by own hand and team members. Range of in blockchain projects done from scratch. Solid background in scalable cloud service for BigData projects including AI.

PROFESSIONAL EXPERIENCE**[q-Qube.io](#) 2019.08 - , Technical Lead**

Acting as technical lead for catching up all system modules from previous team. The project is on pre seed funding stage, working options now. Python, Flask

[Prometeus.io](#) 2019.05 - 2019.08, CTO

Driving system design and development PoC from the brief definition in whitepaper. Team has been built from scratch from own network. All components like smart-contract, private blockchain based on Ethereum, backend API and front-end have been completed in time. Architecture and backend prototype developed by own hands. Technology stack is: Python, Solidity, React, Django

Private cryptocurrency fund startup 2018.06-2019.09, CTO**Torns to own project: [“Cross exchange strategy trading framework”](#)**

Developing cryptomarket real time analyzing and auto trading SW platform. Build a team of traders and quants. Own trading and analyzing platform has built with Python, ZeroMQ, Django. Platform covers all general exchanges, gives back office terminals to control quants and manual trading. Some scalping trading strategies implementation.

LA Token, Moscow, Head of R&D 2017.12 - 2018.06

Drive and manage cryptocurrency market platform development team. Define technology stack and architecture, keeping project road map done. Developing and bringing up BI of market platform. Holding a role of Market Making owner, building from scratch auto trading solution.

MERA, Russia, 2015.09 - 2017.01, Software R&D service company

Role of **C.T.O.** ~500 members department focusing on developing and deploying IoT, M2M and Embedded solutions

- Project technology stack analysis
- Drive solution architecture
- Project launching on available human resources
- Project risk management and client contacting during project
- Presale support of the American sale office
- Project proposals developing
- Preparation of commercial offers

Have done projects with below technologies: IoT cloud; communications systems GPS, 4G, LPWAN(LoRaWan, SigFox), embedded sw and hardware prototyping and applying IoT Platform Getting partnership with Samsung ARKTI IoT Platform, Cypress IoT HW.

Done project like: IoT cloud service; Video monitoring service; Fleet monitoring system; Range of sensors prototyping.

BOSCH, Germany, 2013.10-2014.04

Sensor SoC project. No RTOS firmware architecture developing from scratch using asm and C++. Algorithms optimization. Writing SystemC models and modules in C code to support SPI, I2C, DMA communication. Power management module in C.

DeepHeads, SW R&D consultancy: Owner 2013 - now

- **TocketBox** - Design high level architecture for crypto found.
- **Kaspersky** - forming product requirements for IIot security platform.
- **Desteny.games** - prototyping microservices architecture for game portal with 2 000 000 users. Integrate BI platform for marketing team.
- **Qligent** - broadcasted video quality testing: plugin for GStreamer, C++
- Porting and build WebKit + WebRTC for Qualcome target platform: C\++, make
- Applying AI algorithms to signal processing task, using HTM\CLA algorithms: python, C++
- Competing at Kaggle.org on signal processing with AI: Python, C++
- High load Bitcoin pool server prototype using C++/boost/Linux.
- **aloka.ru, qoolyc.com, locook.ru** - backend server, JSON-RPC API using C++/Python/Linux/MonogDB
- **zingaya.com** – Design and implement threaded asynchronous proxy API server for accepting and dispatch SIP calls using C++/boost/Linux.

Intel, Germany, October 2010 to March 2013

System debugger at 2G\3G SoC project. Play a role of trouble shutter in embedded SW, solve crashes, memory and performance leaks. Use Lauterbach debugger to analyze root of issue in ThreadeX I/O subsystem and memory management. Analyzing C/C++ code . Play integrator role in setting up SoC automated testing system, writing test scripts.

Samsung Semiconductor, Korea, May 2006 to March 2009

Team Leader / System Architecture. DVB TV Channel decoder *S3C4Fxx*.

Develop DVB-T/H data stream generator for SoC; Porting FreeRTOS to ARM7/9 SoC. Threaded embedded SW solution based on FreeRTOS; Prototype SoC configurable CPU/DSP multi-core solution; Implementing SystemC Network-on-Chip (TLM) model; Design and implementation DVB-T/H, DMB, MediaFIO ARM7/9 SoC Bus Function Model and SoC co-simulator solution. SystemC, C/C++, Verilog.

Intel, Russia, September 2000 to December 2005

Software Engineer in “Intel® Integrated Performance Primitives” project.

Writing C/assembler code for IA32/IA64. Totally around 500 Assembler optimized primitives for image and signal processing developed. The performance of library has been increased 10 times to C compiler. Wide test system implementation in C++ to cover arithmetic and memory failures.

PROFESSIONAL SKILLS**Programming Languages and Tools**

- C/C++, Python, SystemC, Assembler
- SQL, NoSQL/MongoDB
- Django

Languages

- English – everyday use
- Russian – native

EDUCATION**September 2003 to 2006: PhD classes.**

Name: Sarov Physics Technical University, Russia

Specialty: Mathematical, systems and networks

Topic: Solving fast 3D collisions detection problem

1996 – 2001: Master of Science

Name: Moscow Engineering Physics Technical University

Specialty: Computers, systems and networks

Diploma Title: “Performance monitoring of events in IA32 architect for Pentium®-II, Pentium®-III and Pentium®-IV

