

ALEKSANDR TUCHKOV,
INDEPENDENT CONSULTANT,
SOFTWARE&HARDWARE ENGINEER

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- Professional Profile**
- During last 8 years I've been solving problems in software&hardware development. Most often I create solutions for my clients as an independent consultant and engineer. I help to create automation systems, monitoring systems, desktop, mobile and client-server applications, server software, microcontroller-based hardware, embedded systems, robots, drones.
- Education**
- I graduated with honours from Institute of Cryptography, Telecommunications and Informatics in Moscow. I have an Engineer's degree in Radioelectronic Systems. Studied physics and mathematics as a base for all electronic systems. Then studied digital electronics and programming languages as a base for modern electronic systems.
- Professional Experience**
- 2008 – 2013. Federal Security Service. I worked on measurement and automation systems. During this period, I created the idea of automation of several industrial measurement processes, developed the architecture and implemented the prototype of the automation system, which delivered a large speed-up of working process. Qt/C++ and several NI and R&S instruments were used.
 - 2013 – present. Self-employed proprietor.
 - ◆ Most of time I work with clients on upwork.com. There are a lot of finished projects there, and they are visible at my public page: <https://www.upwork.com/freelancers/~01246720bb1fb3b547> . The entire list of my skills is constantly used there, because all projects are very different.
 - ◆ Also I am working with PLK LLC (<http://ply.ru/en/>), where I am creating a custom monitoring and accounting system for manufacturing processes.
- Technical Skills**
- Application interaction design, software architecture design
 - C/C++, Qt/Qml, Javascript
 - Python, Tornado, Django
 - OpenCV
 - OpenCL
 - OpenGL, GLSL
 - Golang
 - SQL, Postgresql
 - Network programming, communication protocols
 - Electronics and PCB design
 - Software/Hardware reverse engineering
 - DSP
- Linguistic Skills**
- Russian (native), English (intermediate)

Certificates

- Machine Learning by Stanford University on Coursera. Certificate earned on April 2, 2016 <https://www.coursera.org/account/accomplishments/records/Y9D9LYB3E52C>