



# VDOVYDCHENKO ALEXANDER

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## Senior Engineer

30 years old, marital status: single

current location: Moscow, Russia

## Objective

Having worked as a hardware and software, electronic and QA engineer, I have gained rich expertise in the field of embedded systems development. My professional knowledge spans from the semiconductor industry and technologies to modern software applications and operating systems specifics. I would like to even more expand my expertise, so I am ready to face new challenges in the field of cutting-edge computational technical systems and devices in an ambitious and international team and try to make the world a better place.

## Experience

### Engineer

2014 - till now

### Instrumental systems corp

As a senior engineer, I am involved in the full production and development cycle of embedded radio-electronic (embedded) device manufacturing, as well as in R&D projects and processes. My professional expertise is in modern semiconductor electronic hardware and technical systems based on them, software and firmware development, and debugging. Serial and special-purpose production I am dealing with mainly represents embedded systems based on multichannel high-speed ADCs and DACs (AD\TI) with data processing units (DSP) based on FPGAs and SOC (Xilinx). In the course of my work, I probably have to tackle almost all moments related to the development and maintenance of manufactured devices, starting from writing and testing firmware and software, ending with PCB and analog debugging, providing technical assistance to the company's departments and customers, and compiling the project's documentation and specification.

- FIRMWARE
- SOFTWARE
- RF EQUIPMENT
- VHDL/VERILOG
- SUPPORT
- DOCUMENTATION
- PROJECT MANAGEMENT
- PROJECT DRAFTS
- HDL/FPGA/SOC
- EMBEDDED
- ADC & DAC
- LINUX

## Research fellow

Nov 2017 - Mar 2019

### Institute of Radio-engineering and Electronics

As a fellow researcher, I was involved in scientific-based projects based on the facilities of ultralow-noise superconducting THz receiver (unique sample) and SSPDs. The main tasks were connected with performing scientific research and providing technical services to the receiver.

- RESEARCH
- DATA PROCESSING
- EXPERIMENT CONDUCTION
- SCIENTIFIC APPROACH
- REPORTING
- EXPERIMENTAL PHYSICS

## Personality

A well-balanced and open-minded person, and a curious learner. My professional-related interests are the semiconductor industry, modern high-speed computing, computing devices and hardware, operational systems, and programming languages. I always strive to improve myself, and I am currently trying to grow as a manager and system engineer.

My main passions are music (guitar playing), hiking, mountaineering, and global financial markets.

# Education

- MASTER OF BUSINESS ADMINISTRATION  
oct 2023 - aug 2025  
(2 years)
- **Moscow International Higher Business School MIRBIS**  
Strategical Management
- MANAGEMENT
  - STRATEGIC DEVELOPMENT
- MASTER OF SCIENCE  
sep 2017 - jul 2019  
(2 years)
- **Moscow Institute of Physics and Technology**  
Department of Solid State Electronics and Information Systems  
Major • Applied Mathematic and Physic
- SCIENTIFIC RESEARCH
  - STATISTICAL PROCESSING
  - LOW TEMPERATURE PHYSICS & ELECTRONICS
- SPECIALIST  
sep 2009 - jul 2014  
(5 years)
- **Moscow Technical University of Communications and Informatics**  
Department of Radio Receiving and Transmitting Devices  
Major • Radio-electronics
- RF EQUIPMENT
  - SCHEMATIC
  - ANALOG, DIGITAL, HF, RF COMPONENTS
  - CPU, FPGA, DSP
  - PHYSIC MODELLING

## Supplementary education & cerificates

- **C++ PROFESSIONAL PROGRAMMING (in progress)** OTUS.RU
- C++ (11-23)
  - STL, BOOST
  - MOCKING, TESTING
  - CROSS-PLATFORM
- **PROGRAM ARCHITECTURE AND DESIGN PATTERNS (5 months, certificate)** OTUS.RU
- SOFTWARE ARCHITECTURE
  - DESIGN PATTERNS
  - MICROSERVICES
  - OBJECT-ORIENTED PROGRAMMING
- **RUST DEVELOPER (6 months, prof. development training)** OTUS.RU
- NETWORK
  - ASYNCHRONOUS PROGRAMMING
  - CONCURRENT AND PARALLEL PROGRAMMING
  - FUNCTIONAL PROGRAMMING
- **MODERN C PROGRAMMING (6 months, prof. development training)** OTUS.RU
- x86\_64
  - ARM
  - LOW-LEVEL PROGRAMMING
  - MAKE, CMAKE
  - POSIX
  - LINUX
- **ADVANCED ASPECTS OF LINUX-BASED SYSTEM ADMINISTRATION (7 months, p.d.t)** OTUS.RU
- \*NIX ADMINISTRATION
  - VIRTUALIZATION
  - NETWORK
  - KERNEL/MODULE PROGRAMMING
- **PYTHON PROGRAMMING (6 months, prof. development training)** OTUS.RU
- WEB DEVELOPMENT
  - JANGO & FLASK
  - SQ/NoSQL
  - JS
  - CI/CD
  - REST
  - GIT
  - SVN
- **CERTIFICATE IN ADVANCED ENGLISH (1 year)** CAMBRIDGE ENGLISH QUALIFICATIONS
- CEFR LEVEL C1 (ADVANCED)
  - COMMUNICATION
- **MATLAB & SIMULINK FOR PROCESSES AND SYSTEM MODELLING (1 month)** EXPONENTA.RU
- MATLAB & SIMULINK
  - MODELLING
- **GERMAN LANGUAGE STUDIES IN CULTURAL AND PROFESSIONAL COMMUNICATIONS (2 years)** MOSCOW STATE UNIVERSITY
- GERMAN B2
  - COMMUNICATION
- **MEASUREMENTS AND TESTS METHODS CREATION (3 months, prof. development training)** SNTA
- MEASUREMENT METHODOLOGY