Pavel Zakharov

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EDUCATION

Moscow Institute of Physics and Technology, Moscow, Russia

- DREC, Section of microprocessor technologies   09-2015 – 07-2019
  - Bachelor degree (with honors): Applied Mathematics and Physics
  - Thesis: Research into viability of application of spatial diversity in wireless sensor networks
- DREC, Section of multimedia technologies and telecommunications since 09-2019
  - Master of Science: Applied Mathematics and Physics
  - GPA: 9.2 out of 10

The Yandex School of Data Analysis, Moscow, Russia

- Track - Big data infrastructure   since 09-2019
- Completed courses:
  - Algorithms and data structures
  - Computer architecture and operating systems
  - Programming in C++
  - Algorithms in external memory
  - Programming in Golang
  - Cryptosystem strength pt.1
  - Distributed systems

WORK EXPERIENCE

JSC "Milandr", Zelenograd, Moscow, Russia

- Research Intern, Software Development Department,   09-2017 – 08-2019
  Electronic Devices Design Center
  - Research in the field of digital communications, signal processing
  - Wireless system modeling in Simulink
  - Wireless system prototyping using SDR (USRP и LabVIEW)
  - Experimental data processing: MATLAB, Python
  - Implementation of data processing algorithms for DSP: C

Moscow Institute of Physics and Technology, Moscow, Russia

- Engineer,   since 12-2019
  Laboratory of Multimedia Systems and Technologies
  - Developing of GUI for high-delay network data transfer applications, tuning and validation of network performance of these applications: C/C++
  - OFDM system model - receiver and transceiver, channel impairments modeling: MATLAB
  - Analysis of DFT-S-OFDM performance in case of nonlinearities: MATLAB
  - Multidimensional QAM constellation optimization: MATLAB
  - HEVC encoding and decoding tasks: C/C++

SKILLS

- Programming Languages: C/C++, Golang, MATLAB
- Utilities: LaTeX, bash, Git
- Languages: Russian (Native), English: (C1), German: (B1)

INTERESTS

- Completed courses by Intel:
  - Architectures and microarchitectures of processors
  - Fundamentals of software modeling of computers
  - Logic elements and VLSI design
  - Mathematical foundations of CAD of VLSI
- Interests: Cycling, skiing, fiction.

[CV compiled on 2021-01-16]