NIKOLAI GAIDUCHENKO

Curriculum Vitae

@ Gaiduchenko.NE@gmail.com 📞 +7-925-450-82-99
github.com/Yozh2 📍 Moscow, Russia

WORK EXPERIENCE

Data Scientist
Machine Intelligence Laboratory by K.V. Vorontsov

📅 09.18 – present   📍 MIPT, Dolgoprudny, Russia

One-click Deep Learning pipeline for synthetic document dataset generation, recognition

Software Engineer
SPA (NPO) «Almaz», R&D dept.

📅 12.18 – present   📍 Moscow, Russia

Hypersonic aircraft venicle flight path generation, simulation, and recognition using neural networks

Engineer Assistant
Samsung R&D, AI Algorithms Lab

📅 06.18 – 09.18   📍 Moscow, Russia

Deep learning and computer vision for self-driving robot

Laboratory Assistant
Laboratory of Design of Special Computer Systems Architectures

📅 10.17 – 12.18   📍 MIPT, Dolgoprudny, Russia

Sub-array antenna modeling app for CAD Radar Python package *«PyPhased»*

EDUCATION AND TRAINING

Moscow Institute of Physics and Technology
📅 2015 – present ($5^{th} year$)   📍 Russia, Dolgoprudny

Department of Radio Engineering and Cybernetics Master, Applied Mathematics and Physics, GPA: 8.8/10.0

- Mathematics (Linear Algebra, Differential Equations, Probability, Statistics)
- General Physics, Theoretical and Quantum Mechanics, Field Theory, Statistical Physics
- Engineering, CAD, Micro Controllers, Radar Applications, Digital Signal Processing, Signal Theory
- Cryptography, Information Security Theory, Information Theory
- Computer Science, Computational Mathematics, ML algorithms and principles, Computer Vision

Regional Lyceum for Gifted Children
📅 2013 – 2015   📍 Russia, Penza

Kaspersky Cybersecurity Summer Lab
📅 2017   📍 Russia, Kaluga region

MIPT Extramural Physical-Technical School
📅 2011-2015   📍 Russia, Dolgoprudny

ACHIEVEMENTS

Russian National Phystech Olympiad
Prize winner: Physics

MIPT Radio Engineering Competition
Prize Winner

Abramov's scholarship for excellent progress in university in 2018

PUBLICATIONS

MIPT 59th International Scientific Conference: General Physics Section, 2017
To the question of the temperature dependence of the coefficient of surface tension of water. Intermediate results. / Nikolai Gaiduchenko, Oleg Lashinin

RELEVANT COURSES

Kalman and Bayesian Filters in Python
by Roger R. Labbe

Machine Learning and Data Analysis
on Coursera by MIPT & Yandex

Building Deep Neural Networks in Python
by Andrey Sozykin

ROS Courses and Tutorials
interactive courses by Robot Ignite Academy

COMPUTER SKILLS

- **Python**: PyTorch, Tensorflow, Keras, PyQt5, ROS, Numpy, Tornado, Numba optimization
- Bash, Git, Docker, Google Colaboratory, experience in using AWS Amazon web services for complex calculations
- LaTeX, huge experience in making presentations

ENGINEERING SKILLS

- Assembler (ARM, i386, AVR), PCB boards, Arduino
- OrCad, KiKad, SolidWorks, Proteus
- Verilog (Digilent Nexus FPGA), Xilinx ISE Design Suite

LANGUAGES

English	Advanced	●●●●○
Russian	Native	●●●●●