

NIKOLAI GAIDUCHENKO

Curriculum Vitae

@ Gaiduchenko.NE@gmail.com
github.com/Yozh2

+7-925-450-82-99
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

Engineer Assistant

SPA (NPO) «Almaz», R&D dept.

12.18 – present Moscow, Russia

Re-entry hypersonic vehicle trajectory generation, simulation, and classification using LSTM-based 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 (4th year) Russia, Dolgoprudny

Department of Radio Engineering and Cybernetics BSc, 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, KiCad, SolidWorks, Proteus
- Verilog (Digilent Nexus FPGA), Xilinx ISE Design Suite

LANGUAGES

English
Russian

Advanced ●●●●●
Native ●●●●●