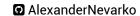
Aleksandr **Nevarko**

□ +7 925 203 27 42 | ■ aleksandr.nevarko@skoltech.ru | ■ AlexanderNevarko





Summary_

I am a 6-year student at MIPT and a 2-year student at Skoltech. I am keen on programming, physics, maths and mostly all other technical sciences. My main hobbies are cars and chess. I have an entrepreneurial spirit and a lot of will to create new interesting projects. I am looking forward to learning new areas of computer science and applications of physics and maths in it.

Experience

Samsung Al Center

Moscow, Russia

RESEARCH INTERN

Jun 2021 - Jul 2021

- Personalized selfie editing project.
- Developed a conditional model.

Skoltech Moscow, Russia

RESEARCHER

Dec 2020 - present

 Asymmetric telepresence system via Microsoft Kinect and VR glasses. 3D Computer vision. Scientific director prof. Victor Lempitsky.

Huawei Moscow, Russia

ENGINEER IN RESEARCH AND DEVELOPMENT

Nov 2020 - Feb 2021

• Data analysis digital signal processing in fiber optic communication systems.

Acronis Moscow, Russia

GOLANG INTERN IN RESEARCH AND DEVELOPMENT

Sep 2019 - Jul 2020

• Developing REST API Intelligent Fuzzing tester as a graduate work. The tool may become an opensource competitor for an analog from Microsoft Research RESTLer. Scientific director Anna Melekhova.

Laboratory for modeling and designing special computing architectures, **MIPT**

MIPT. Moscow, Russia

PYTHON DEVELOPER / PHYSICIST

Jul 2019 - Oct 2020

- Integrated a physical model of a ballistic rocket into the project.
- Developed a physical engine for phased antenna arrays.
- Improved a graphical phased antenna array geometry redactor.

Projects

Energy of Breakthrough (https://github.com/maftukh/energy-hack)

Moscow

WINNER

Oct 2021

- Control system for gas distribution network of a city
- · Predicting optimal parameters for gas valves with restrictions for best gas distribution of the network

BCG GAMMA Hackathon on Digital Healthcare

(https://github.com/AlexanderNevarko/bcg-hack)

Moscow

PARTICIPANT

Jul 2021

- Analysis of SARS and flu incidence rate data.
- Search for factors that affect the non-epidemiological incidence rate in different cities of Russia.

MICCAI AutoImplant 2021 Challenge

(https://github.com/aniton/AutoImplant-2020-2021)

PARTICIPANT May 2021

• Problem: automatic cranial implant design. Create a solution, that given a skull with a defect, generates a 3D model of a cranial implant specifically for the patient.

- 3 approaches tried: baseline from authors, winning solution from 2020 challenge, 2020 SOTA 2D segmentation network (SAUNet) applied for 3D.
- SAUNet showed the best result.

Emotion tracker

(https://github.com/AlexanderNevarko/emotion-tracker)

Skoltech
Dec 2020

Skoltech

ML ENGINEER

• A system for real-time emotion tracking using web-camera. Useful to collect better feedback from online lectures and sem-

- Dataset collection and analysis.
- Different approaches from classical CV to neural networks and Facebook ready-to-run pre-trained networks tested for speed and accuracy.
- Implementation for laptop web-camera usage.

Public places access system (frtk.mipt.ru / 8ka.mipt.ru)

MIPT

PROJECT LEAD 2017-2018

- Website with online timetable for some shared recourses in dormitories. Implemented for washing machine rooms.
- Booking and paying possibility on the site.
- Hardware electronic locker for key-card access to washing machine room.
- Developed by a team of 4 members, sold to 2 dormitories in MIPT.
- Won RedBull Basement University 2018 in Russia with that project.

Education.

Moscow Institute of Physics and Technology

Dolgoprudny, Russia

Department of Radio Electronics and Cybernetics Sub-department of Theoretical and Applied Informatics, affiliated with Acronis 2016 - 2022 2018 - 2020

Institute for Information Transmission Problems

2020 - 2022

Skoltech
Department of Data Science
2020 - 2022

Skills

Languges English (upper intermediate), German (B1)

Programming Python, Go, C/C++, git, Linux

Maths Linear algebra, mathematical analysis, differential equations, probability theory, etc.

Physics General physics, quantum mechanics **Soft Skills** Leadership, communications, teamwork

Honors & Awards

2018 Winner of the Russian stage, Red Bull Basement University

Final Stage Winner, Russian National Physics School Olympiad

Moscow / Berlin Sochi, Russia

ALEKSANDR NEVARKO · RÉSUMÉ