

Alexey Konstantinov



👤 Age: 21 y.o.

📍 Location: Sirius, Russia



Language: Russian, English

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Education

- **Peter the Great St.Petersburg Polytechnic University**

(Saint-Petersburg) Mechatronics and Robotics, Autonomous robots

- **Sirius University of Science and Technology**

(Sochi) Mathematical Robotics and Artificial Intelligence



Skills

- **Python, C++, C**

Main programming languages

- **Computer vision, OpenCV, YOLO**

Object detection, Stereo vision, Structure-from-motion, etc.

- **TensorFlow, Deep Learning, Machine Learning**

CV applications, Natural language processing, etc.

- **Robot Operating System (ROS)**

CV, Autonomous navigation, etc.

- **Servers, Git, VPN, Linux, Docker, MongoDB**

Launch, support, API-development, Every-day-use

- **Embedded systems developing**

STM32, NRF24, ESP8266, NVIDIA Jetson, Arduino

- **CAD & CNC, Electronics, PCB developing**

3D-modeling and 3D-printing, Laser cutting, Milling, Practical skills



Work experience

- **Tutor of C++ & Python programming languages**

Freelance

Teaching the students (high-school students, university students and graduates) a programming languages from zero to hero, project assistance and support.

- **Embedded systems developer**

Freelance

Developing a firmware for such devices as radio transceivers, special equipment, control systems etc.

- **Team-Lead in FabLab**

Youth Project Activity Center "FabLab Polytech" (St.-Petersburg)

Tutor of programming STM32 microcontrollers, 3D-Modeling and 3D-printing, Theoretical mechanics for BioMechanic applications for university students, participating competitions (such as WorldSkills), etc.

- **Python Developer**

Freelance

Developing a Python-based projects, such as CV projects, chat-bots, etc.



Projects

- **Closed-Source projects (can be discussed on the interview)**

- Surveillance system - WorldSkills winning project, based on YOLOv4 and SORT tracking
- Skincare Telegram Bot - A bot for the telegram which can analyze your skin conditions and advice you skincare products which you need, based on TensorFlow for a dialog processing
- Autonomous navigation algorithm for the following robot - University graduating project, based on ROS, allow a robot to follow the particular person with using object detection & tracking, gestures recognition, path planning algorithms, etc.

- EMG Sensors - Electro-MyoGraphy sensors for the prostheses and overall control systems application

- **Open-Source projects**

- [E-Board Receiver](#) - The firmware for the receiver in the DIY electric longboard based on STM32 and NRF24L01+
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