

# ILIA SEVOSTIANOV

## Computer Vision Engineer

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Innopolis, Russia



## EXPERIENCE

### CV engineer

#### TechTrans

March 2022 – Feb 2023 Saint Petersburg, Russia

- Project prototype for tracking safety violations on the railway
- Railroad Simulator, which allowed to save resources on debugging algorithms and providing experiments
- Sensors selection
- Models training, datasets aggregation and augmentation with use of ClearML
- Objects tracking, detection
- Disparity and depth estimation

### CV engineer

#### Autonomous Technologies Laboratory

Feb 2021 – Innopolis, Russia

- LED marker system for precise drone landing development
- Safe landing system for UAV development
- LDWS development for electrobus
- Neural networks deployment, optimization, quantization
- Sensors calibration (Cameras, Lidars) on a KAMAZ truck
- Bird eye view camera system creation for the car
- Objects tracking

### Engineer Assistant

#### JBL Robotics

Aug 2018 – Feb 2019 Moscow, Russia

- Development of ROS nodes to control a barista robot
- Design of cup holders and a gripper for the robot barista itself.

## SKILLS

Python

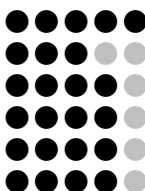
C++, C

CV|ML OpenCV, TensorRT, PyTorch, clearML

ROS1|2

Linux

Git



Tex



English

Russian



## PROFILES

### Github

- The main profile on which open source code and projects are available

### WebSite

- Private website-portfolio

### LinkedIn

- LinkedIn link

## ACHIEVEMENTS

- Diploma for Outstanding Contribution to Science, 2021 year, Innopolis University
- Diploma for Outstanding Academic Achievements (full calendar year 2020) and Extracurricular Achievements, 2020 year, Innopolis University
- Aerobot 2020 competition Victory. The line and landing platform detection for the UAV
- Best Student of the Robotics Department, 2018 year, Bauman Moscow State Technical University

## PUBLICATIONS

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- Sevostyanov, I. E., Devitt, D. V., Trikhleb, D. V., & Baranova, A. A. (2022). System of Visual Positioning of a UAV for High Accuracy Autonomous Landing. Journal of Machinery Manufacture and Reliability, 51(8), 809-815.
- Mudiyansele G. P. K., Trichleb D. V., Sevostyanov I. E. Computation of the Optimal Trajectory in the Three Dimensional Space with the Application of Supported Learning // Science Time. - 2021. - №. 6 (90). - C. 34-37. (Translated)
- Sevostyanov I. E., Devitt D. V. VISUAL POSITIONING SYSTEM OF MULTI-ROTOR BESILOTTORS FOR EXTENSIVE AUTONOMIC LANDING //Science Time. - 2021. - №. 6 (90). - C. 38-42. (Translated)
- IVANYUTENKO V. E. et al. A System for Determining the UAV Elevation Zone for the SAFE AUTONOMIC Landing Problem // School of Young Innovators. - 2021. - C. 98-101. (Translated)
- Kirsanov D. et al. Stiffness analysis of the Tripteron parallel manipulator //2020 International Conference Nonlinearity, Information and Robotics (NIR). – IEEE, 2020. – C. 1-6.
- Kalinichenko S. V. et al. Simulation in MATLAB of a vertical walking three-link robot //AIP Conference Proceedings. – AIP Publishing LLC, 2019. – T. 2195. – №. 1. – C. 020008.

## EDUCATION / COURSES

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### SkillFactory C++ Developer Specialization

📅 Sep 2023

📍 <https://skillfactory.ru/>

### THE SELF-DRIVING CAR ENGINEER SYSTEM: Skills, Tactics, and Keys to break into the Cutting-Edge World

📅 Dec 2022

📍 [courses.thinkautonomous.ai](https://courses.thinkautonomous.ai)

### Convolutional Neural Networks

📅 Jan 2022

📍 [DeepLearning.ai](https://deeplearning.ai)

### Structuring Machine Learning Projects

📅 Dec 2021

📍 [DeepLearning.ai](https://deeplearning.ai)

### Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

📅 Nov 2021

📍 [DeepLearning.ai](https://deeplearning.ai)

### Neural Networks and Deep Learning

📅 Oct 2021

📍 [DeepLearning.ai](https://deeplearning.ai)

### Robotics and Computer Vision Master Degree

#### **Thesis: Quadruped Robot Development**

📅 2019 – 2021

📍 [Innopolis University](https://www.innopolis.university)

### Robotics and Mechatronics Bachelor's Degree

#### **Thesis: Vertically Stepping Robot**

📅 2015 – 2019

📍 [BMSTU](https://www.bmstu.ru)