ILIA SEVOSTIANOV

Computer Vision Engineer

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github.com/sevocrear @ sevocrear

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

- 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.
- Mudiyanselage 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 analisys 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. – Т. 2195. – №. 1. – С. 020008.

EDUCATION / COURSES

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

Convolutional Neural Networks

Jan 2022 DeepLearning.ai

Structuring Machine Learning Projects

Dec 2021 DeepLearning.ai

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Nov 2021 DeepLearning.ai

Neural Networks and Deep Learning

Oct 2021 DeepLearning.ai

Robotics and Computer Vision Master Degree

Thesis: Quadruped Robot Development

2019 – 2021 Innopolis University

Robotics and Mechatronics Bachelor's Degree

Thesis: Vertically Stepping Robot

2015 – 2019 BMSTU