

ALEXEY NEKRASOV

✉ alexey@nekrasov.dev · 🌐 nekrasov.dev · 📞 +49-(160)-323-54-51 · 🌐 github.com/kumuji

EXPERIENCE

Computer Vision Institute (RWTH) Aachen, Germany May 2021 – Present

Ph.D. Student / Research Assistant in the group of Prof. Leibe

- Nekrasov Alexey*, Schult Jonas*, Litany Or, Leibe Bastian, Engelmann Francis
Mix3D: Out-of-Context Data Augmentation for 3D Scenes
in *International Conference on 3D Vision*, **Oral**, 2021 [Website]

Computer Vision Institute (RWTH) Aachen, Germany Jun. 2019 – Mar. 2021

Student Assistant in the group of Prof. Leibe

Improvement of tracking pipeline for an industrial robot, research

- Developed several real-time ROS packages for industrial robot with limited resources (Python, C++, OpenCV, Pytorch, Tensorflow, ONNX, TensorRT);
- Refactored huge codebase for robotics project (ROS, C++, Python);
- Increased accuracy of tracking pipeline by 3% using optical flow as an additional queue (Pytorch);

IBM Moscow, Russia Jan. 2017 – Oct. 2018

Machine Learning Engineer at Global Business Services Department in Data Science group

Analysis of data, development of prediction models for industry

- Implemented predictive maintenance model using LSTMs(Keras) and classical ML on SQL real-world data, deployed in production;
- Implemented forecasting model for the human resource demand planning using python and classical machine learning approaches, deployed in production;
- Analysis and reporting of data from industrial machinery using python(pandas, scikit-learn) and SPSS which lead to a new project;
- In two months, fully developed a robotics platform leading a team of 2 other interns for Conference Moscow.

Hydronautics student team Moscow, Russia Sep. 2015 – Sep. 2016

Captain of a student underwater robotics team

International competition in NASA USA, July 2016. Participated as a C++ programmer for electronics devices and a manager.

- Managed team of 30+ volunteers;
- Lead team of 10 people to international competition;
- Developed and deployed programs for ARM and AVR devices using C++(C).

EDUCATION

RWTH Aachen University, Aachen, Germany Oct. 2018 – Mar. 2021

M.Sc Robotics Systems Engineering

GPA: 1.9/1.0

Bauman Moscow State Technical University, Moscow, Russia Sep. 2013 – Sep. 2017

B.Sc. Mechatronics and Automatization

GPA: 4.1/5.0

QUALIFICATIONS

- Programming Languages: Python, C++(C), Bash, SQL, L^AT_EX
- Technologies and tools: Linux, Git, Docker, Slurm, ROS, OpenCV, ONNX, TensorRT, Pytorch, Tensor-Flow, Scikit-learn, Keras, Vim, Tmux, DVC
- Languages: Russian, English, German(A2)