

Shukrullo Nazirjonov

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EDUCATION

Friedrich-Alexander-Universität Erlangen-Nürnberg

Master of Science in Autonomy Technologies (Planning and Control)

Erlangen, Germany

Oct. 2023 – Aug. 2025

Nagoya University

Bachelor of Engineering in Mechanical and Aerospace Engineering

Nagoya, Japan

Oct. 2018 – Mar 2023

EXPERIENCE

Research Intern

Max Planck Institute for Intelligent Systems

Jul. 2023 – Present

Tübingen, Germany

- Conducting research on 6D pose estimation, robot manipulation and curiosity-driven reinforcement learning at Autonomous Learning group under the guidance of Prof Georg Martius
- Implementing latest reinforcement learning methods in both simulation and real systems, such as TriFinger robot

Robotics Software Engineer Intern

AKA Intelligence

Sep. 2022 – Apr. 2023

Seoul, South Korea

- Developed point cloud processing and vision pipeline to register and track relevant data from an indoor asparagus farm using a mobile robot
- Suggested and adopted instance segmentation models (YOLACT, Detectron2) for integration with point cloud processing

Undergraduate Research Student

Intelligent Robotics and Biomechatronics Laboratory, Nagoya University

Oct. 2021 – Mar. 2023

Nagoya, Japan

- Investigated use of vision-based tactile sensors (GelSight, DIGIT) in in-hand manipulation tasks (gravitational pivoting and re-orientation), including the measurement of contact force
- Contributed to Facebook Research's machine learning library for touch sensing (PyTouch)

PUBLICATIONS

- Yaonan Zhu, **Shukrullo Nazirjonov**, Bingheng Jiang, Jacinto Colan, Tadayoshi Aoyama, Yasuhisa Hasegawa, Boris Belousov, Kay Hansel, and Jan Peters
“Visual Tactile Sensor Based Force Estimation for Position-Force Teleoperation”, IEEE International Conference on Cyborg and Bionic Systems (**Best Paper Finalist**)

AWARDS AND HONORS

- Nagoya University G30 Scholarship (2018 - 2022), Japanese Government MEXT Scholarship (2023 - 2025)
- JASSO Foundation scholarship (2018 - 2019), Open Robotics Foundation Scholarship (2022)

VOLUNTEERING

English and Programming Teacher

Alive English School

Sep. 2022 – Mar. 2023

Nagoya, Japan

- Taught high-level programming classes to Japanese primary school students using Scratch and Lego Robot Programming Kit

Contributing Writer

Khan Academy Uzbek

Jul. 2019 – Aug. 2019

Tashkent, Uzbekistan

- Translated dozens of mathematics and science articles written in Khan Academy English into Uzbek language
- Organized workshops on science and mathematics terminology for new contributing writers

SKILLS

- **Robotics:** Robot Operating System (ROS), Gazebo, Moveit, PyBullet, Mujoco
- **Programming Languages:** Python, C++, MATLAB
- **Tools:** Linux, Git, CMake, CUDA