

# Shukrullo Nazirjonov

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## EDUCATION

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<b>Friedrich-Alexander-Universität Erlangen-Nürnberg</b> <i>Master of Science in Autonomy Technologies (Planning and Control)</i>	Erlangen, Germany Oct. 2023 – Aug. 2025
<b>Nagoya University</b> <i>Bachelor of Engineering in Mechanical and Aerospace Engineering</i>	Nagoya, Japan Oct. 2018 – Mar 2023

## EXPERIENCE

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<b>Research Intern</b> <i>Max Planck Institute for Intelligent Systems</i>	Jul. 2023 – Sep.2023 Tübingen, Germany
<ul style="list-style-type: none"><li>Selected as one of 9 CaCTüS internship students among over 600 applicants to work at Autonomous Learning Group at MPI-IS, advised by Prof.Georg Martius</li><li>Built a real-time perception system for TriFinger robot and integrated intrinsically motivated reinforcement learning techniques into both simulated and real TriFinger robots</li></ul>	
<b>Robotics Software Engineer Intern</b> <i>AKA Intelligence</i>	Sep. 2022 – Apr. 2023 Seoul, South Korea
<ul style="list-style-type: none"><li>Developed point cloud processing and vision pipeline to register and track relevant data from an indoor asparagus farm using a mobile robot</li><li>Suggested and adopted instance segmentation models (YOLACT, Detectron2) for integration with point cloud processing</li></ul>	
<b>Undergraduate Research Student</b> <i>Intelligent Robotics and Biomechatronics Laboratory, Nagoya University</i>	Oct. 2021 – Mar. 2023 Nagoya, Japan
<ul style="list-style-type: none"><li>Investigated use of vision-based tactile sensors (GelSight, DIGIT) in in-hand manipulation tasks (gravitational pivoting and re-orientation), including the measurement of contact forces</li><li>Contributed to Facebook Research’s machine learning library for touch sensing (PyTouch)</li></ul>	

## PUBLICATIONS

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- 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

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

## VOLUNTEERING

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<b>English and Programming Teacher</b> <i>Alive English School</i>	Sep. 2022 – Mar. 2023 Nagoya, Japan
<ul style="list-style-type: none"><li>Taught high-level programming classes to Japanese primary school students using Scratch and Lego Robot Programming Kit</li></ul>	
<b>Contributing Writer</b> <i>Khan Academy Uzbek</i>	Jul. 2019 – Aug. 2019 Tashkent, Uzbekistan
<ul style="list-style-type: none"><li>Translated dozens of mathematics and science articles written in Khan Academy English into Uzbek language</li><li>Organized workshops on science and mathematics terminology for new contributing writers</li></ul>	

## SKILLS

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- Robotics:** ROS, Gazebo, Moveit, PyBullet, Mujoco
- Programming Languages:** Python, C++, MATLAB