

# STEVEN OH

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## EDUCATION

### Waseda University

Sep. 2022 – Sep. 2026 (expected)

- Bachelor of Engineering in Mechanical Engineering — GPA 3.95/4.00

## EXPERIENCE

### OMRON SINIC X Corporation

Oct. 2024 – Present

*Robotics Research Intern with [Dr. Masashi Hamaya](#)*

- Developed a bilateral teleoperation device and soft wrist for variable-stiffness manipulation with imitation learning; submitted one patent, a first-authored workshop and journal paper, and a co-authored conference paper.

### Sugano Lab, Waseda University

Oct. 2024 – Present

*Undergraduate Researcher with [Prof. Shigeki Sugano](#)*

- Developing a cocktail-making robot controlled via hand–arm teleoperation for behavior cloning with vision-based and magnetic tactile sensor through graph-based representations.

### Multi-Scale Embodied Intelligence Lab, Imperial College London

Jul. 2024 – Sep. 2024

*Visiting Student with [Dr. Dandan Zhang](#)*

- Researched a machine learning–based performance evaluation pipeline for vision-based tactile sensors; worked on fabricating magnetic tactile sensor; first-authored journal paper submitted.

### Tokyo Robotics

Jul. 2023 – Jul. 2024

*Software Engineering Intern*

- Built motion-planning features (ROS/Movelt) for mobile manipulators; constructed data pipelines and VLA fine-tuning using Octo and RTX for bimanual manipulation ([video](#))

### RIKEN CBS-TOYOTA Collaboration Center

Jul. 2020 – Jun. 2022

*Research Intern with [Prof. Shingo Shimoda](#)*

- Developed a robotic pencil sketching system using vector-flow stroke generation and tactile feedback.

## PUBLICATIONS

- [1] **S. Oh\***, T. Takahashi\*, C. C. Beltran-Hernandez, Y. Kuroda, M. Hamaya. “CLAW: A Soft Wrist with Anisotropic and Selective Stiffness for Safe Robot Learning in Contact-rich Manipulation”. *In submission to RAL*.
- [2] **S. Oh\***, Q. Cong\*, W. Fan\*, S. Luo, K. Althoefer, D. Zhang. “TacEva: A Performance Evaluation Framework for Vision-Based Tactile Sensors”. *In submission to Advanced Intelligent Systems*.
- [3] **S. Oh\***, T. Inui\*, M. Kuan\*, J. Y. Lin . “MicCheck: Repurposing Off-the-Shelf Pin Microphones for Easy and Low-Cost Contact Sensing”. *International Automatic Control Conference 2025, Oral*.
- [4] “Soft robot wrist and bilateral teleoperation device”. *Patent, CoRL Open Hardware Workshop 2025*.
- [5] K. Yamane, C. C. Beltran-Hernandez, **S. Oh**, M. Hamaya, S. Sakaino. “Refinement of Accelerated Demonstrations via Incremental Iterative Reference Learning Control for Fast Contact-Rich Imitation Learning”. *In submission to ICRA 2026*.

## HONORS

1st Place, “Robot as an Unexpected Artist”, TEDx Speaker Competition	2025
Kawamori–Moto NEC Scholarship (Total of \$10,000)	2023
Peace Bell University Entrance Scholarship (Total of \$27,600)	2022
2nd Place, Purple Comet! Math Meet, Japan	2021

## TECHNICAL SKILLS

**Languages:** English (Native), Mandarin (Native), Japanese (Business Fluent)

**Robotics:** UR5e, XArm, Piper, Allegro hand, Torobo Humanoid Robots

**Tactile Sensors:** GelSight, USkin, DIGIT, ViTacTip, MagicTac

**Development:** Python, C++, ROS1/ROS2, CAD, PyTorch, ReactJS