

# TAE MIN KIM

(332) 273 1367 | tk3175@columbia.edu | <https://www.linkedin.com/in/tm-kim>

## EDUCATION

---

<b>Columbia University</b> MS in Mechanical Engineering, Robotics and Control	08/2025 - 12/2026
<b>Sogang University</b> B.S. in Mechanical Engineering, Artificial Intelligence	02/2025 GPA: 3.77/4.3

## AREAS OF INTEREST

---

- Reinforcement Learning
- Robotic in hand manipulation
- Planning

## RESEARCH EXPERIENCE

---

<b>Research Intern</b> , Sogang University, Korea Robotics and Intelligent Mechanisms lab <ul style="list-style-type: none"><li>· Utilized reinforcement learning algorithms to accomplish dexterous in-hand manipulation tasks within IsaacLab simulations</li><li>· Applied teacher-student distillation techniques to achieve comparable performance on real robots</li></ul>	03/2024 - 06/2025
<b>ExploreCSR Workshop</b> , Seoul National University, Korea Reinforcement Learning Lab <ul style="list-style-type: none"><li>· Designed algorithms for solving environments requiring deep exploration</li></ul>	07/2023 - 08/2023

## WORK EXPERIENCE

---

<b>Hardware Intern</b> , Brookhurst Garage Startup company specialized in Automatic Drone Control using 3D Visions <ul style="list-style-type: none"><li>· Contributed to the internal structural design of drones to address vibration issues</li></ul>	01/2024 - 02/2024
---	-------------------

## PROJECTS

---

<b>Capstone Design Project</b> , Sogang University, Korea <ul style="list-style-type: none"><li>· Led a team of 4 in developing AI-powered healthcare app services</li></ul>	10/2023 - 12/2023
--	-------------------

## PUBLICATIONS

---

**Domestics**

- E. Lee, T. Kim, S. Jeong, "Enhancing the Robustness of Reinforcement Learning Controllers Using a Value Function-Based Disturbance Observer", Korea Robotics Society annual Conference, 2025
- E. Lee, T. Kim, C. Nam, S. Jeong, "Object Grasping with Low-Cost Force Sensors via Reinforcement Learning", Korea Robotics Society annual Conference, 2025

## AWARDS

---

**2023 AI Challenge: Machine Learning Force Fields** , Samsung, Korea  
Achieved 12th place out of 141 participating groups

Oct. 2023

## SERVICES

---

**Military Service**, Republic of Korea Army

Mar.2020 - Oct.2021

- Fulfilled the mandatory military service in ROK Army
- Currently in military reserve status

## SKILLS

---

### **Programming Languages**

C/C++, Python, MATLAB

### **Frameworks**

Pytorch, TensorFlow, ROS

### **Others**

Dynamixel, Arduino, Form4, Cubicon

### **Languages**

Korean, English