Seonsoo Kim

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Working at Defense AI Center of Agency for Defense Development(ADD), South Korea, for military service (mandatory for South Korean)

I am planning to pursue a PhD in Robotics and AI, with the goal of beginning in Fall 2027, and I am currently exploring potential opportunities.

RESEARCH INTERESTS

I am interested in solving robotics and dynamic systems problems using machine learning and artificial intelligence. My research focuses on how models can rapidly and accurately develop an understanding of the world, enabling robots to adapt efficiently to complex environments. Inspired by human intelligence, I aim to design approaches that simplify robotics problem-solving and reduce the effort required from humans.

EDUCATION

2020 - 2023   Bachelor's Degree at **Gwangju Institute of Science and Techonology(GIST)**
Mechanical Engineering major, **Intelligent Robotics** sub major
GPA: 4.37/4.5, (1st/97)

WORK EXPERIENCE

Research intern at GIST MIC Lab (Now in KAIST)   Jan 2023 - Feb 2024
Developed 7DoF manipulator impedance control performance with reinforcement learning at the null-space with Prof. Kyunghwan Choi

Research officer for National Defense at ADD   June 2024 - May 2027
Developing a Vision Language Action model for autonomous driving at wild conditions. Developed exploration of multi-robot in GPS denied cave.

PUBLICATIONS

Disentangled Multi-Context Meta-Learning: Unlocking robust and Generalized Task learning. Conference on Robot learning (CoRL), 2025 **S. Kim**, J.Kang, T.Kim, and S. Hong.

AWARDS AND HONORS

2023   **GIST Future Talent Award**
Selected as one of only two recipients among all graduates.

2022   **Korea Navy Academy President's Award**
2nd prize of MiliTECH Challenge hosted by KAIST.
Topic: Deep Learning-Powered System for Detecting and Countering Illegal Weapon Transportation

SKILLS

Programming   Python, MATLAB, ROS operation
Engineering   Electrical Baja car design and building experience