

Hangyeol Lee

Gwangju Institute of Science and Technology

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Research Interests

- Humanoid robot locomotion and whole-body control
- Control Theory

Education

Gwangju Institute of Science and Technology	2026 - present
M.S. in Mechanical and Robotics Engineering	
Hanyang University ERICA, Ansan, Korea	2020 - 2026
B.S. in Mechanical Engineering	
- Total GPA: 4.21 /4.5, Major GPA: 4.29/4.5	

Experience

Smoldering Extinguishing Robot for Steep-Slope Fire Suppression	Apr 2025 - Sep 2025
The KSME Student Creative Design Competition (Korean Society of Mechanical Engineers)	
<ul style="list-style-type: none">- Designed a tracked mobile robot for suppressing residual fires on steep terrain- Developed a blade-arm mechanism to enhance stability and prevent slip accidents- Conducted mechanical system design considering center-of-mass shift and ground interaction	
Design of an Underwater Exploration and Rescue Drone	Sep 2024 - Jan 2025
3D Design for the Future Competition, Korea Productivity Center (KPC)	
<ul style="list-style-type: none">- Designed an underwater drone concept for strategic search-and-rescue missions- Developed 3D CAD models and validated structural layout	
Undergraduate Research Intern	Jul 2024 - Jan 2025
<ul style="list-style-type: none">- HARCO Lab, Hanyang University- Assisted robotics research and simulations using Isaac Sim and C++	

Awards & Honors

Hanyang-Brain Scholarship (Academic Scholarship), Hanyang University	Feb 2025
Recipient of the Chairman's Award, 3D Design for the Future	Jan 2025
<ul style="list-style-type: none">- Presented by Korea Productivity Center (KPC)	
Hanyang-Brain Scholarship (Academic Scholarship), Hanyang University	Jul 2024

Skills

Software: CATIA, FUSION 360, ANSYS, MATLAB, Isaac Sim

Programming: Python, C++

TOEIC: 890