

# SEUNG YEON WOO

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## Education

Mar 2021 – **B.S. in Mechanical Engineering & Electrical and Computer Engineering (Double Major)**,  
Expected Feb 2027 *Seoul National University*, Seoul, South Korea.

## Research Interests

Vision-based Robot Manipulation, Vision-Language-Action (VLA), 3D Perception, Robot Learning

## Publications

Feb 2026 “AnyCamVLA: Zero-Shot Camera Adaptation for Viewpoint Robust Vision-Language-Action Models.” *Submitted to IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2026.* (2nd author)

## Research Experience

- Sep 2025 – **Research Intern**, *3D Vision Lab, Seoul National University*, Seoul, South Korea.  
Feb 2026 ○ Mitigated viewpoint sensitivity in Vision-Language-Action (VLA) models using real-time feed-forward novel view synthesis.
- Jun 2025 – **ESEP-G Research Intern**, *GVLab, University of Tokyo*, Tokyo, Japan.  
Aug 2025 ○ Developed an end-to-end grasping pipeline for the Pepper robot leveraging LLMs.
- Winter 2024 – **Undergraduate Researcher (UROP)**, *Robot Vision Lab, Seoul National University*, Seoul,  
Spring 2025 South Korea.  
○ Built a sim-to-real grasping dataset generation pipeline in **Isaac Sim** and ROS 2, recording synchronized multi-modal sensor data.
- Summer 2023 **Research Intern (KAIST SURF)**, *TKU Lab, KAIST*, Daejeon, South Korea.  
○ Conducted hands-on research in tissue engineering and large-scale brain imaging using stretchable, elastic brain slabs.

## Projects

- Winter 2026 **Voice-to-Voice AI Health Assistant** (SNU CES Global Program)  
○ Implemented a real-time exercise guidance system by integrating a CV-based pose estimation engine with a domain-specific RAG pipeline for context-aware voice feedback.
- Fall 2023 **Smart Infant Monitoring Mobile**  
○ Developed a Raspberry Pi-powered SIDS prevention system integrating OpenCV and thermal sensors for real-time facial visibility and temperature monitoring.

## Language Proficiency

TOEFL iBT **110/120** (R: 29, L: 30, S: 23, W: 28)

Test Date: Dec 28, 2024

TOEIC **970/990** (L: 485, R: 485)

Test Date: Mar 31, 2024

## Computer skills

Programming Languages Python, PyTorch, C, C++, Dart, Matlab