

# JUNHO LEE

(+82)10-2871-1839 ◇ twjhlee@snu.ac.kr

## EDUCATION

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Seoul National University *2020 - Current*  
Ph.D. Electrical and Computer Engineering  
Advised by Prof. Young Min Kim  
GPA: 3.90/4.30

Seoul National University *2017 - 2020*  
B.S. Electrical and Computer Engineering  
GPA: 3.51/4.30

## RESEARCH INTERESTS

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My research goal is to build a robotic system that can robustly perceive and manipulate real-world objects. Specifically, I focus on manipulating transparent objects with a robot arm. Currently, I am working on grasping such objects via neural fields while obtaining input from an RGB-D camera.

## PUBLICATIONS

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MaskGrasp: Mask-based Grasping for Scenes with Multiple General Real-world Objects  
Junho Lee, Junhwa Hur, Inwoo Hwang, Young Min Kim  
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2022.

Gatsbi: Generative agent-centric spatio-temporal object interaction  
Cheoulhui Min, Jinseok Bae, Junho Lee, Young Min Kim  
*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021  
(Oral).

## AWARDS & HONORS

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- Tutor Award by SNU College of Engineering 2021

## PROJECTS

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- Bachelor thesis: Using demonstrations from VR integrated robot control systems to alleviate sparse reward setting for RL(2020).

## TEACHING EXPERIENCES

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- TA, Linear Algebra for Electrical Systems Fall 2021  
Instructor: Young Min Kim

- TA, Linear Algebra for Electrical Systems Fall 2022  
Instructor: Young Min Kim

## **IT SKILLS**

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- **Programming Languages:** Python, C++, MATLAB, LaTeX
- **Libraries:** PyTorch, Numpy, Nvidia IsaacSim, Blender
- **Platforms:** Linux, Mac OS, Windows
- **Hardware:** Panda Franka Emika, HTC Vive, Realsense
- **Server:** System administrator for server(48 GPUs)

## **LANGUAGES**

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- **Korean (native)**
- **English (native)**