

# JaeSung Ahn

🏠 <https://voyagerahn.github.io>

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🌐 [github.com/voyagerahn](https://github.com/voyagerahn)

## EDUCATION

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**Seoul National University of Science and Technology** *Mar 2020 – Aug 2022*  
B.S. in Mechanical System Design Engineering (*Advisor: Prof. Chibum Lee*)

## EXPERIENCE

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**Hyundai Motor Company**, Uiwang, Korea *Jan 2023 - Present*  
*Research Engineer (Mobile robot team, Robotics Lab)*

**HL Mando** *Seongnam, Korea*  
*Engineer (S/W Campus, Global R&D Center)* *Nov 2022 – Dec 2022*  
• SbW(steer-by-wheel) control logic

**Korea Institute of Science and Technology (KIST)** *Seoul, Korea Undergraduate*  
*Student Researcher (Advisor: Ph.D. Yisoo Lee)* *Sep 2021 – Sep 2022*  
• Developed model predictive control and deep reinforcement learning combined control algorithms for 18DoF quadruped robot

**Republic of Korea Air Force**, Pyeongtaek, Korea *2015 - 2017*  
*Military Service*

## HONORS AND AWARDS

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**Merit-based Scholarship** *2018 - 2019*

**Undergraduate Conference Award** *12/01/2018*

**Outstanding Design Award** *01/11/2020*  
Awarded by The Hong Kong University of Science and Technology (HKUST),  
Sungkyunkwan University (SKKU)

**2021 SRC IRC Intelligent Robot** *10/30/2021*  
4<sup>th</sup> place, Awarded by Dean of Engineering

## EXTRACURRICULAR ACTIVITIES

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### **Member of Robotics Research Club ‘Thot’, SeoulTech**

2020

*Undergraduate Student (Advisor: Prof. Donghwan Kim)*

- . Designed, fabricated, tested robots(e.g. drones, manipulator)
- . Contributed to Deep learning based Bin Picking & Inserting project that used fully convolutional model for real-time image segmentation

## PROFESSIONAL TRAINING

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**Nvidia Certification**, Nvidia Deep Learning Institute, 12/02/2021

- Fundamentals of Deep Learning

## TECHNICAL SKILLS

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### **Programming and Software**

- C99/C++20, Python, Java, R, Matlab, Swift, VHDL
- PyTorch, TensorFlow, ROS (melodic), Ray
- Vim, Git, CMake, Shell Script, Linux/Unix
- NX, OrCAD, ANSYS
- MuJoCo, Raisim, Pybullet

### **Experience with Robots**

UnitreeRobotics A1, KIST Dual Arm robot, KIST Humanoid Mahru-R (Only simulation)

## REFERENCES

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**Yisoo Lee**, Ph.D.

*Senior Researcher*

Center for Intelligent and Interactive Robotics

Korea Institute of Science and Technology

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