JaeSung Ahn

- ♠ https://voyagerahn.github.io
- voyagerahn@gmail.com
- **O** github.com/voyagerahn

EDUCATION

Seoul National University of Science and Technology

Mar 2020 – Aug 2022

B.S. in Mechanical System Design Engineering (Advisor: Prof. Chibum Lee)

EXPERIENCE

Hyundai Motor Company

Uiwang, Korea

Research Engineer (Mobile Robotics team, Robotics Lab)

Jan 2023 - Present

- Research and develop dynamic model, control and state estimation algorithm for mobile robots
- · Design and implement control software for robot

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

Military Service

Pyeongtaek, Korea *2015 - 2017*

PUBLICATIONS

<u>Jaesung Ahn</u>, Euncheol Im, Yisoo Lee, "Learning Impulse-Reduced Gait for Quadruped Robot using CMA-ES". In Proceedings of the *IEEE International Conference on Ubiquitous Robots (UR)*, 2023.

HONORS AND AWARDS

Merit-based Scholarship

2018 - 2019

Undergraudate 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

4th place, Awarded by Dean of Engineering

EXTRACURRICULAR ACTIVITIES

Member of Robotics Research Club 'Thot', SeoulTech

2020

Undergraduate Student (Advisor: Prof. Donghwan Kim)

· Designed, fabricated, tested robots(e.g. drones, manipulator)

PROFESSIONAL TRAINING

Nvidia Certification, Nvidia Deep Learning Institute

12/02/2021

- Fundamentals of Deep Learning

TECHNICAL SKILLS

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

- · Hyundai motor company MobED
- UnitreeRobotics A1
- · KIST Dual Arm robot
- · KIST Humanoid Mahru-R (Only simulation)

REFERENCES

Yisoo Lee, Ph.D.

Senior Researcher
Center for Intelligent and Interactive Robotics
Korea Institute of Science and Technology
Email: yisoo.lee@kist.re.kr

HunKeon Ko, Ph.D.

Team Leader
Mobile Robotics Team, Robotics Lab
Hyundai Motor Company
Email: hoonhoon@hyundai.com