

JaeSung Ahn

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🌐 github.com/voyagerahn

EDUCATION

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

EXPERIENCE

Hyundai Motor Company, Uiwang, Korea Oct 2023 - Present
Research Engineer, Mobile robot team, Robotics LAB

HL Mando, Seongnam, Korea Nov 2022 – Dec 2022
Engineer (S/W Campus, Global R&D Center)

- SbW(steer-by-wheel) control logic

Korea Institute of Science and Technology (KIST), Seoul, Korea Sep 2021 – Sep 2022
Undergraduate Student Researcher (Advisor: Ph.D. Yisoo Lee)

- Development project : MPC based force control framework
 - Implemented model predictive control(MPC), quadratic programming(QP) based force control framework for 18DoF quadraped robot
- Research project: Learning gait for quadraped robot with evolutionary strategy
 - Researched project that used reinforcement learning to control how robots would move like real animals and react in challenging environments
- Research project: Adaptive impedance control for Humanoid robot
 - Initiated research project that generate adaptive gain of humanoid robot impedance controller using reinforcement learning

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

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

Feb 2020 – Feb 2021

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

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

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

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