Kyoungyeon Choi

MECHANICAL ENGINEERING S.M. APPLICAN

264, Ichon-ro, Yongsan-qu, Seoul, Republic of Korea

□ (+82) 10-5545-9416 | kenbaxter1221@gmail.com | Abestever-choi.github.io/

Research Interests

- -Robotics, Robotic Manipulation, and Legged Robotics
- -Dynamics and Control

Education

Seoul National University (SNU)

Seoul, S.Korea

B.S. IN MECHANICAL ENGINEERING

Mar. 2015 - PRESENT

- Cumulative GPA: 4.1/4.3 (Major: 4.19/4.3, Upper: 4.21/4.3)
- Two years of absence to fulfill military duty (Aug. 2017 Jul. 2019)

ETH Zürich Zürich, Switzerland

EXCHANGE STUDENT IN MECHANICAL ENGINEERING

• Global Leadership Program, College of Engineering SNU

Aug. 2019 - Feb.2020

Research Experience _____

Bachelor's Thesis Research

Seoul, S.Korea

ROBOTICS LABORATORY, SNU

Mar. 2020 - Present

- Advisor: Frank Chongwoo Park Prof.Dr.
- Thesis: Learning 6-dof grasping from partial point cloud embedding
- Developed a grasping policy that selects a successful 6-dof grasp pose from a VAE grasp generator

Semester Project Zürich, Switzerland

ROBOTICS SYSTEMS LAB, ETH ZÜRICH

Zuricn, Switzeriana Aug. 2019 - Jan. 2020

- Advisor: Hutter, Marco Prof.Dr.
- Project paper: Recovery controller for ANYmal on various terrains
- Project webpage: https://bestever-choi.github.io/ANYmal-recovery/
- Developed recovery controller for the quadruped robot ANYmal, enabling ANYmal to recover and stand up on sloped terrains

Research Intern Seoul, S. Korea

PHOTONICS DEVICE PHYSICS LABORATORY, YONESI UNIVERSITY

Dec. 2016 - Feb. 2017

- Advisor: Kyunghwan Oh Prof.Dr.
- Research Paper:Two-mode Fiber with a Reduced Mode Overlap for Uncoupled Mode-division Multiplexing in C+L Band
- Designed a fiber optic cable that reduces mode overlap in LP01 and LP11 modes

Publications

• Seongjin Hong, **Kyoungyeon Choi**, Yong Soo Lee, and Kyunghwan Oh, "Two-mode Fiber with a Reduced Mode Overlap for Uncoupled Mode-division Multiplexing in C+L Band", Current Optics and Photonics, Vol. 2, Issue. 3, June 25, 2018.

Extracurricular Activity _____

Sigma Intelligence

Seoul, S.Korea

MEMBER, SNU

Jul. 2016 - Aug. 2017

- A robotics group focused on designing robots and electronics devices
- Developed footsteps warning device using piezoelectric sensor with ROS

Teaching and Mentorship

Seoul, S.Korea

TEACHER

Mar. 2015 - Aug. 2019

• Taught and mentored middle/high school students Math and Physics for 4 years

Honors & Awards

Gwanak President Scholarship

Seoul, S.Korea

Sep. 2015 - Present SNU ALUMNI ASSOCIATION

- Awarded for academic excellence
- Full-tuition, 7 semester

Global Leadership Program Scholarship

Seoul, S.Korea

Aug. 2019

College of Engineering, SNU

• Exchange semester at ETH Zürich

National Mathematics Competition

Seoul, S.Korea

GLOBAL ASSOCIATION FOR GIFTED AND TALENTED

Nov. 2013

• The first prize

Skills

Programming Python, Matlab, Tensorflow, C, C++, ROS, LaTeX

3D CAD SolidWorks

Robot Simulation Raisim gym, Mujoco gym, PyRep

Physics Simulation COMSOL Multiphysics

Other Experience _____

Seoul Metro Corporation

Seoul, S.Korea

SOCIAL SERVICE AGENT

• Alternative military service

• Designed a CAD model for military purpose

Aug. 2017 - Jul. 2019