Kyoungyeon Choi

MECHANICAL ENGINEERING S.M. APPLICAN

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

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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

Aug. 2019 - Feb.2020

• GPA: 5.87/6

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 with reinforcement learning

Semester Project Zürich, Switzerland

ROBOTICS SYSTEMS LAB, ETH ZÜRICH

Aug. 2019 - Jan. 2020

- Advisor: Hutter, Marco Prof.Dr.
- Project paper: Recovery controller for ANYmal on various terrains
- · Developed recovery controller for quadruped robot "ANYmal", enabling the robot 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 C+L Band

Extracurricular Activity_

Sigma Intelligence Seoul, S.Korea

A robotics club focused on designing robots and IOT devices

• Developed footstep noise alert device using piezoelectric sensor with Arduino and ROS

Honors & Awards_

Gwanak President Scholarship

Seoul, S.Korea

SNU ALUMNI ASSOCIATION

Sep. 2015 - Present

Mar. 2017 - Aug. 2017

• Full-tuition, 7 semester

National Mathematics Competition

Seoul, S.Korea

GLOBAL ASSOCIATION FOR GIFTED AND TALENTED

Nov. 2013

• The first prize

MEMBER, SNU

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.

Skills

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

3D CAD SolidWorks

Robot Simulation Raisim gym, Mujoco gym, PyRep

Physics Simulation COMSOL Multiphysics

Relevant Coursework

M2794.002700 Introduction to Robotics, SNU

M2794.001200 Dynamics, SNU

M2794.013500 Mechanical System Modeling and Control, SNU

400.019A Introduction to Electrical and Computer Engineering, SNU

Robot Dynamics, ETH Zürich

Dynamic Programming and Optimal Control, ETH Zürich

M1886.000300 Optimization Theories in Human Movements, SNU

M2794.008000 Advanced Mechanical Engineering Analysis, SNU

M2794.001700 Mechanical Product Design, SNU

035.001 Digital Computer Concept and Practice, SNU

033.014 Engineering Mathematics 1, SNU

033.015 Engineering Mathematics 2, SNU

400.003 Engineering Mathematics 3(Numerical analysis), SNU

033.019 Statistics, SNU

Opencourse_

Underactuated Robotics, MIT

CS188 Introduction to Artificial Intelligence, UC Berkeley

CS231n Convolutional Neural Networks for Visual Recognition, Stanford University

CS294-112 Deep Reinforcement Learning, UC Berkeley