



Changyo LEE

Student

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“Innovative, teamwork-oriented, Provide the best solution to the customers” it is my attitude I have always had since I majored in engineering. I studied Mechanical Engineering in the bachelor’s and master’s program, and have experience in providing new value by participating in many projects such as ROS Programming, Data Fusion, SLAM, Machine Vision, Troubleshooting simple/complex issues of Robot, and Implementing new features based on user feedback. In addition, Native Korean, with professional working proficiency in Chinese and English.

EDUCATION

Master’s Degree In Mechanical Engineering

Shanghai Jiao Tong University
Shanghai, China (2018.08-2021.02)

Courses:

Digital Signal Processing, Machine Vision, Mechanical system Dynamics, Mechatronics, Performance Simulation and Control of Robot, Optimization methods, Matrix Theory, Elastic & plastic Mechanics

Project:

- Library Assistant mobile Robot

Thesis:

- Fast-Frontier-based Exploration and Navigation using Semantic Applications

Bachelor’s Degree In Mechanical Engineering

Seoul National University of Science and Technology
Seoul, Korea (2010.03-2018.02)

Courses:

Computer Language, MEMS, Statics, CAD, Thermodynamics, Dynamics, Electric, Electronic, Engineering Mathematics, Numerical Analysis, Fluid Mechanics, etc.

Project:

- Smart stick for blinds using Arduino kit

Thesis:

- Optimization method of HVAC System

1 Year Exchange Student

Harbin Far East Institute of Technology
Harbin, China (2016.03 – 2016.12)

Project:

- Autonomous wall painting robot

Winter Semester Exchange Student

Huazhong University of Science and Technology
Wuhan, China (2015.01-2015.02)

WORK EXPERIENCE

Research and Development Intern

Midea Group
Shanghai China (2020.09— Present, Full-time)

Task/Responsibility

- Visual navigation open source software testing and application research
- Application test of visual navigation on a mobile robot
- Research on Application of Vision + Laser Fusion Navigation
- Other application tests related to vision

Graduate Student Researcher

Robot Control and Machine Vision LAB

Shanghai Jiao tong university
(2018.09—2020.09, Full-time)

Task/Responsibility

- Design Semantic SLAM Based on ORB-SLAM2 with yolov3
- Design Fast Frontier-based Exploration and navigation system
- Design Robots in ROS

Technical Support Engineer

Kohyong Technology

Seoul, Korea (2018—6 months, Full-time)

Task/Responsibility

- Trouble shooting HW/SW of semi conductor inspection equipment(AOI, SPI)
- SW/HW Test

Research Assistant

Micro Interfacial Flow and Visualization LAB

Seoul National University of science and technology
(2017— 1 year, Full-time)

Task/Responsibility

- Assist Graduate-level student’s research
- Project: Optimization of HVAC system

PUBLICATIONS

Asynchronous Fusion of Visual and Wheel Odometer for SLAM applications

Changyo lee, jichao peng

IEEE/ASME International Conference on Advance Intelligent Mechatronics, pp. 1990-1995, IEEE(2020)

Award and Honors

Scholarship A

China Scholarship Council(2018-2021)

- Support Full tuition, insurance
- Every months 3000RMB scholarship and 1200RMB living subsidy, etc.
- During Master Program

Win a Dreamer Award

Ecovacs Robotics 3rd Robot Design Competition
Harbin, China(2016)

- [Link \(http://robot.ecovacs.cn/thread-99539-1-sortid-1.html\)](http://robot.ecovacs.cn/thread-99539-1-sortid-1.html)

Win a Silver Medal in CNC Lathe

Seoul Skill Olympics(2-times)
Seoul, Korea(2008)

Language

Korean(Native)



Chinese(新HSK6 205)



English(Toeic 865)



Programming

C++



Python



Tensor Flow



Matlab



TOOL

ROS



Solidwork



Master CAM



Blender



Certification

Robotics issued by edX Columbia University

ROS for Beginners path issued by Robot ignite Academy