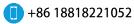
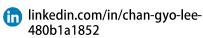


**Changyo LEE** Student



Icgyo@naver.com





"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 (2018-2021)

#### Courses:

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

Library Assistant mobile Robot

#### Thesis:

Fast-Frontier-based Exploration and Navigation using Semantic Applications

## ■ Bachler's Degree In Mechanical Engineering

Seoul National University of Science and Technology Seoul, Korea (2010-2018)

#### Courses:

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

#### Proiect:

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 — 1 year) Project:

Autonomous wall painting robot

# ☐ Winter Semester Exchange Student

Huazhong University of Science and Technology Wuhan, China (2015 — 2 months)

# WORK EXPERIENCE

#### Graduate Student Researcher

Robot Control and Machine Vision LAB Shanghai Jiao tong university (2018 — 2021, 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

#### Journalist Shanghai Edu News Shanghai, china (2020 — 5 months, Part-time)

## Task/Responsibility

- Translate(Chinese-Korean)
- Web Crawling in python

## ■ Interpreter

2018 Weplay Game Expo Shanghai China (2018— 3 days, Part-time) Task/Responsibility

B2C Translation(Korean-English-Chinese)

## □ Technical Support Engineer

Kohyoung 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

## ☐ Towed artillery Maintenance Soldier

Republic of Korea Army Gangwon-do, Korea (2011-2013, Full-time) Task/Responsibility

Defence Republic of Korea

## **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-<u>sortid-1.html</u>)

■ Win a Silver Medal in CNC Lathe Seoul Skill Competition(2-times) Seoul, Korea(2008)

## Language

Korean(Native)



Chinese(新HSK6 205)

English(Toeic 865)



Python



**Tensor Flow** 



Matlab



# TOOL

ROS



Solidwork







Robotics issued by edX Columbia University

**ROS for Beginners path** issued by Robot ignite Academy