# 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

❑ **Bachler'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

❑ **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

❑ **Journalist**
*Shanghai Edu News*
*Shanghai, china (2020.01 — 2020.05, Part-time)*
*Task/Responsibility*
- Translate(Chinese-Korean)
- Web Crawling in python

❑ **R & D Intern**
*Midea*
*Shanghai China (2020.09— Present, 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-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