SeungWan **Choi**

Robotics · Firmware Engineer

418,63, Mangu-ro 21-gil, Dongdaemun-gu, Seoul, 02439, Republic of Korea

(+82) 10-8515-5706 | gkgkgk5706@gmail.com | RobPang

"Working hard is the mother of good luck"

Summary

This is SeungWan Choi, who wants to become Robot Engineer. My research interests are Mobile Robot and Control System.
I would like to develop a technology that increases people's quality of life.

Research Interests

Mobile Robot Mobile Manipulator, Drone
Control System Linear Dynamical Systems, Force Control

Education

Kwang Woon University *Seoul, S.Korea*

B.S. in School of Robotids *Mar. 2016 - Feb. 2022 (Expected)*

- **Current GPA** : 4.00 / 4.50, **Current Major GPA** : 4.15 / 4.50
- **Club** : BARAM(Robotics Academic Group) - [2020 Staff]

Work Experience

KIST(Korea Institute of Science and Technology) *Seoul, S.Korea*

Student Intern(Advisor : Dr. YongSeok Ihn) *Jan. 2021 - Feb. 2021*

- Produced MFC that receives HYPERION Interrogator and F/T sensor data

Honors & Awards

Awards

2020.12 **3rd Place**, Cham-bit Award *Kwangwwon Univ.*

Honors

2021-1 **Academic excellence Scholarship**, One-quarter tuition *Kwangwwon Univ.*
2020-1 **Academic excellence Scholarship**, One-quarter tuition *Kwangwwon Univ.*

Skills

Programming C/C++, Python, Matlab, Lua
DevOps ROS, Git
Languages Korean, English

Extracurricular Activity

Automatic Anti Drone Turret *Kwangwwon Univ.*

2021 Spring Capstone Design *Mar. 2021 - Jun. 2021*

- We implement an automatic shooting system for anti-drone
- I designed the controller using Cascade for BLDC, designed firmware algorithm, implement communication between pc and mcu(serial, packet, thread), implement algorithm to shoot down drone
- The source code related to this project is on my [Github repository].

Mobile Manipulator

Kwangwwon Univ.

Cham-bit Project

Sep. 2020 - Nov. 2020

- KwangWoon Univ.'s Cham-bit award project.
- We made a differential drive mobile robot and 3-link serial arm
- I desigend System Architecture and developed the ROS package(Communication and Navigation)
- All systems are implemented in ROS
- The source code related to this project is on my [Github repository].

Quadcopter simulation

BARAM(Robotics Academic Group)

Personal Toy Project

Apr. 2020 - Jun. 2020

- Quadcopter Simulator using Coppeliasim
- I designed the controller(Angle(PID) - Angular velocity(PID)
- The drone can be controlled with the keyboard because Simulation(Coppeliasim) is connected with ros.
- The source code related to this toy project is on my [Github repository].

Segway robot

BARAM(Robotics Academic Group)

Personal Toy Project

Sep. 2019 - Nov. 2019

- balancing robot based 2wheel and IMU
- I wanted to designed the DC Motor Controller and used Cortex M4
- I controlled the DC motor using Encoder