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"Can't get anything without trying"

Summary.

This is Sanghyun Park, who wants to become a 0.1% of Robotics engineer. I'm interested in Autonomous driving system of mobile robot and vehicle, SLAM and Sensor Fusion. I think the more research on these technologies develops, the more convenient human life becomes. Therefore, I would like to contribute to this research.

Research Interests

Robotics Visual SLAM, Mobile Robot, Sensor Fusion, Moving Object Detection

Education

KwangWoon University

Seoul, S.Korea **B.S. IN SCHOOL OF ROBOTICS** Mar. 2020 - Feb. 2024(Expected)

• Current GPA: 4.17/4.5, Current Major GPA: 4.25/4.5 Club: Baram (Robotics Academic Group) - [2022 Staff]

Work Experience _____

Robotics & A.I. LAB @KwangWoon University

Undergraduate LAB Intern (Advisor: Prof.Junghyun Oh)

- Research on Visual SLAM and Computer Vision
- Studying Visual SLAM in Dynamic Environment

Honors & Awards

Honors

2020-2	Academic Scholarship, One-quarter tuition	KwangWoon Univ.
2021-1	Academic Scholarship, One-quarter tuition	KwangWoon Univ.
2022-1	Academic Scholarship, One-quarter tuition	KwangWoon Univ.
2022-2	Academic Scholarship, One-quarter tuition	KwangWoon Univ.

AWARDS

2023-1 **Encouragement award**, SHARE robot contest

Shared AI-Robotics **Education School**

Seoul, S.Korea

December. 2021 - August. 2022

Skills_____

Programming C++/C, Python, Matlab DevOps ROS, Git, Docker Frameworks Pytorch

Extracurricular Activity _____

Basic Autonomous driving software

Baram(Robotics Academic Group)

August.2021 - November.2021

C++, ROS, DEEPLEARNING

- I trained Yolov3 model for Object detection
- It was implemented to make real-time judgment by receiving the type and coordinate value of the object recognized in Yolov3 through ROS
- This project is in my Github repository: **Basic_Autonomous-Driving-Software [Link]**

JANUARY 31, 2023 SANGHYUN PARK · CURRICULUM VITAE

Visual Odometry with image preprocessing

Robotics & A.I. LAB (KW Univ.)

VISUAL ODOMETRY, IMAGE PREPROCESSING, PYTHON

February.2022 - February.2022

March.2022 - July.2022

- I implemented visual odometry based on ORB features as Python
- · Visual Odometry is improved in terms of path accuracy when applying Gaussian filter using OpenCV: Result[Link]

3D Objection Detection Projection

Baram(Robotics Academic Group)

OPENPCDET, NUMPY, ROS

- I used PointRCNN pretrained model
- This project is about Projection 3D point cloud (matching Camera Frame) using NumPy
- This project is in my Github repository: **3D-Object-Detection_to_2D_Projection [Link]**

Console game Individual

C++ May.2021 - August.2021

- I implemented a console game that avoids falling objects.
- This project is in my Github repository : **Console_game-avoid_object [Link]**

QS Bot - Quarantine & Security Bot

Baram(Robotics Academic Group)

 ${\tt Mobile\ Robot,\ Moving\ Object\ Detection,\ Charging\ Station\ Docking\ System,\ SLAM,\ Navigation,\ Motor\ Control}$

September.2022 - January.2023

- This project is a Team Project
- I'm currently working on Moving Object Detection and Charging Station Docking System
- This project is in my Github repository: QS Bot [Link]