



Taeyoung Kim

AUTONOMOUS DRIVING · ROBOTICS SW ENGINEER

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"Nothing ventured, nothing gained."

Summary

This is Taeyoung Kim, who wants to become an autonomous driving or robotics SW engineer. My research interests are Computer Vision and Sensor Fusion. I like to take on challenging tasks and I like to grow up with my colleagues around me. That's why I record and share what I did on my Github or Technical Blog. I would like to participate in changing the world with advanced science and technology.

Research Interests

- Computer Vision** Object Detection, Segmentation, Depth Estimation
- Sensor Fusion** Combination of camera, lidar, and radar

Education

Kwang Woon University

Seoul, S.Korea

B.S. IN SCHOOL OF ROBOTICS

Mar. 2016 - Feb. 2022 (Expected)

- **Current GPA** : 4.07 / 4.50, **Current Major GPA** : 4.50 / 4.50
- **Club**: BARAM (Robotics Academic Group) - [2020 Staff], DAISY (English Conversation Club) - [2019 Spring President]

Work Experience

KIST(Korea Institute of Science and Technology)

Seoul, S.Korea

STUDENT INTERN (ADVISOR : DR. KANGGUN KIM)

Sep. 2020 - Feb. 2021

- Research on Monocular Depth Estimation
- Participated in KIST disinfect robot (AI Disinfection Robot) project

Image Process System Lab @Kwang Woon Univ

Seoul, S.Korea

UNDERGRADUATE LAB INTERN (ADVISOR : PROF. DONGGYU SIM)

Mar. 2020 - Aug. 2020

- Research on Image Processing based on Deep learning
- Participated in seminars related to Deep Learning and Image Processing

Honors & Awards

AWARDS

- 2020.11 **Dean's List**, KwangWoon University Seoul, S.Korea
- 2020.9 **5th Place on B-track**, Korea Health Datathon 2020 Seoul, S.Korea
- 2019.10 **Dean's List**, KwangWoon University Seoul, S.Korea

HONORS

- 2020-2 **National Science and Engineering Undergraduate Scholarship (Full tuition Scholarship)**, Korea Student Aid Foundation Seoul, S.Korea
- 2020-1 **National Science and Engineering Undergraduate Scholarship (Full tuition Scholarship)**, Korea Student Aid Foundation Seoul, S.Korea
- 2019-2 **Full tuition Scholarship**, KwangWoon University Seoul, S.Korea

Skills

- Programming** C++/C, Python, JAVA, Matlab
- Framework** Pytorch, Tensorflow, Keras
- DevOps** Git, Docker, ROS
- Languages** Korean, English

Technical Blogs

[Github blog](#)

WRITERS

May. 2020 - Present

- Writing some posts about lecture summary, paper review, some tips for developments.
- To share what I have studied with others and to remember it longer.

Monocular Depth Estimation with ORB-SLAM2

[BARAM \(Robotics Academic Group\)](#)

PERSONAL TOY PROJECT

Sep. 2020 - Nov. 2020

- I was curious about the performance of the recent depth estimation model.
- I used 'Monocular Depth Estimation with Transfer Learning pretrained MobileNetV2' model and applied to ORB-SLAM2, and compared with ORB-SLAM2(Monocular mode), ORB-SLAM2(RGB-D mode)

KCCV 2020

[Korea computer vision society](#)

PARTICIPANT

Aug. 2020

- Participated to know about the trend of Computer Vision

Using deep learning for data analysis and image processing (Basic)

[Korea open source software](#)

STUDENTS

Jul. 2020

- Studied lectures which is related to the using Deep learning framework(Keras)

Runner Alarm System based on Deep Learning

[BARAM \(Robotics Academic Group\)](#)

PERSONAL TOY PROJECT

Apr. 2020 - Jun. 2020

- I want to distinguish between walking children and running children with an object detection model.
- When children are running for an amount of time, a beep sounds.