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. Kanggeon Kim) *Sep. 2020 - Present*

- 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**, for Academic Excellence	*KwangWoon Univ.*
2020.9	**5th Place on B-track**, Korea Health Datathon 2020	*NAVER CLOUD PLATFORM*
2019.10	**Dean's List**, for Academic Excellence	*KwangWoon Univ.*

Honors

2020	**National Science and Engineering Undergraudate Scholarship** , for the students with excellent grades, those who have been recommended by the university	*Korea Student Aid Foundation*
2019-2	**Full tuition Scholarship**, for Top seat last semester	*KwangWoon Univ.*

Skills

Programming C++/C, Python, JAVA, Matlab

Framework Pytorch, Tensorflow, Keras

DevOps Git, Docker, ROS

Languages Korean, English

Extracurricular Activity

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 also compared with ORB-SLAM2(Monocular mode), ORB-SLAM2(RGB-D mode)
- The source code related to this toy project is on my [Github repository].

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 wanted 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.
- The source code related to this toy project is on my [Github repository].

Publication

DOMESTIC CONFERENCE

2020.9 **KSPC2020**, Naseong Kwon, Taeyoung Kim, Subin Kim, Joohyung Byeon, Jongsuk Lee, Donggyu Sim, "Luma Mapping with Chroma Scaling based on CNN feature map for VVC subjective quality improvement" *IEIE*