# 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 - 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**, 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 Undergraudate Scholarship (Full tuition Scholarship)**, Korea Student Aid Foundation | *Seoul, S.Korea* |
| 2020-1 | **National Science and Engineering Undergraudate 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

# 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].