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### Summary\_

Programming Languages: Python (proficient) • C/C++ (proficient) • Java (prior experience) • MatLab (prior experience) Technical skills: Pytorch • Caffe • Tensorflow • OpenCV • LaTeX • Git Languages: Fluent in English, Russian and Ukrainian; Advanced level in Korean.

## **Experience**

Qualcomm Machine Learning Researcher (Senior), XR Team Amsterdam, Netherlands

Researching and developing mobile AR and VR enabling technology

Jul. 2021 - present

AnyVision Deep Learning Researcher and Scrum Master Belfast, UK

Body detection and model evaluation tools to understand application scenario
 Apr. 2020 - Jun. 2021

• Body re-identification

• Replay face spoofing attack detection

Kakao BrainDeep Learning Research EngineerSeongnam, S.Korea

Human pose estimation and action similarity research for fitness tracking
 Nov. 2019 - Mar. 2020

**Noul Inc.** Computer Vision & Deep Learning Research Engineer Yongin, S.Korea

• Microscopy diagnosis of malaria. Development from training to edge product integration

Aug. 2017 - Oct. 2019

• Created hematology analyzer with detection, segmentation, and classification capabilities

• Research on GANs for medical data augmentation resulting in publication

**Healthrian** Software engineer, Intern Daejeon, S. Korea

Developed an Android application for ECG medical device
 Jun. 2015 - Aug. 2015

My Design Lab • KAIST UNDERGRADUATE RESEARCHER Daejeon, S. Korea

Developed a drone to implement wall painting works for skyscrapers
 Dec. 2014 - Jun. 2015

### **Education**

#### Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, S.Korea

M.S. IN ELECTRICAL ENGINEERING. ROBOTICS AND COMPUTER VISION [LAB.] SUPERVISED BY [IN SO KWEON]

Sep. 2015 - Aug. 2017

- A real-time vehicular vision system to seamlessly see-through cars
- Intelligent assistant for people with low vision abilities
- Machine learning-based autonomous vehicle vision system

#### **Korea Advanced Institute of Science and Technology (KAIST)**

Daejeon, S.Korea

B.S. in Electrical Engineering & Business and Technology Management

Sep. 2011 - Aug. 2015

- Manager at KAIST International Basketball Club (KIBC)
- Vice President, Public Relations Head at KAIST International Student Association (KISA)

# **Selected Publications**

#### INTERNATIONAL JOURNALS

CVIU22 MC-Calib: A generic and robust calibration toolbox for multi-camera systems

IJCV22 Real-Time Multi-Car Localization and See-Through System

Access21 A Body Part Embedding Model With Datasets for Measuring 2D Human Motion Similarity

PRL18 Efficient ANMS for homogeneous spatial keypoint distribution

#### INTERNATIONAL CONFERENCES

CVPRW19 Red blood cell image generation for data augmentation using cGAN

ICCV17 VPGNet: Vanishing Point Guided Network for lane and road marking detection and recognition

WACV17 Robust road marking detection and recognition using density-based grouping and ML techniques