Oleksandr [Alex] **Bailo**

COMPUTER VISION · DEEP LEARNING · RESEARCH ENGINEER

Seoul, South Korea

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Summary

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

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).

Experience

Noul Inc. — *Yongin, S.Korea*

COMPUTER VISION & DEEP LEARNING RESEARCH ENGINEER — *Aug. 2017 - Present*

- Microscopy diagnosis of malaria: segmentation, classification.
- Complete Blood Count (CBC): object detection, classification.
- Data augmentation with GANs

Healthrian — *Daejeon, S.Korea*

SUMMER INTERN — *Jun. 2015 - Aug. 2015*

- Developed an Android application for 12 lead ECG medical devices.
- Implemented real-time graphing functions of received data.

My Design Lab • KAIST — *Daejeon, S.Korea*

UNDERGRADUATE RESEARCHER — *Dec. 2014 - Jun. 2015*

- Developed "Automatized Wall Painting Drone" to implement painting works for skyscrapers.
- Implemented real-time graphing functions of continuous input data.

Computer Vision and Image Processing Lab • KAIST — *Daejeon, S.Korea*

UNDERGRADUATE RESEARCHER — *Dec. 2013 - Jun. 2014*

- Developed an eye-friendly projector that prohibits a lighting beam from reaching the presenter's eyes.

Selected Publications

International Journals

PRL18 Efficient ANMS for homogeneous spatial keypoint distribution

International Conferences

CVPRW19 Red blood cell image generation for data augmentation using cGAN — *Long Beach, USA*

ICCV17 VPGNet: Vanishing Point Guided Network for lane and road marking detection and recognition — *Venice, Italy*

WACV17 Robust road marking detection and recognition using density-based grouping and machine learning techniques — *Santa Rosa, USA*

Other Publications

arXiv17 Light-weight place recognition and loop detection using road markings