Oleksandr [Alex] **Bailo**

COMPUTER VISION · MACHINE LEARNING · RESEARCH ENGINEER

Seoul, South Korea

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Summary

Programming Languages: C/C++ • Python • MatLab • Java.
Technical skills: Caffe • Tensorflow • Pytorch • OpenCV • Git • 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 / MACHINE LEARNING RESEARCH ENGINEER — *Aug. 2017 - Present*

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

K-Healthwear — *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*

- Devised "Automatized Wall Painting Drone" to implement painting works for the skyscrapers.
- Implemented real-time graphing functions of received 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.

Publications

INTERNATIONAL JOURNALS

PRL18 — Efficient adaptive non-maximal suppression algorithms for homogeneous spatial keypoint distribution

INTERNATIONAL CONFERENCES

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

IPIU16 — Area-based decision driven best-buddies similarity method for robust template matching — *Jeju, S.Korea*