OLEKSANDR BAILO

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SUMMARY
Currently enrolled in my last semester of the Master's degree, studying Machine Learning and Computer Vision. Experience in SLAM, stereo vision, object detection, visual question answering, emotion recognition.

Programming Languages: C/C++ • Python • MatLab • Java
Technical skills: Caffe • Tensorflow • Linux Bash • OpenCV • Git • Android Studio
Languages: Fluent in English, Russian and Ukrainian; Advanced level in Korean (TOPIK level 5/6)

EDUCATION
Korea Advanced Institute of Science and Technology
Master of Science • Anticipated Graduation: August 2017
Department: Electrical Engineering • Robotics and Computer Vision (RCV) Laboratory supervised by In So Kweon
Selected Publications:

Submitted to PRL	Efficient Adaptive Non-Maximal Suppression Algorithms for Homogeneous Spatial Keypoint Distribution
WACV17	Robust Road Marking Detection and Recognition Using Density-Based Grouping and ML Techniques
IPIU16	Area-Based Decision Driven Best-Buddies Similarity Method for Robust Template Matching

Bachelor of Science • Graduation: August 2015
Department: Electrical Engineering & Business and Technology Management
Campus activities:
- Manager at KAIST International Basketball Club (KIBC).
- Vice President, Public Relations Head at KAIST International Student Association (KISA).

Nanyang Technological University	**Hong Kong University of Science and Technology**
Entrepreneurship & Innovation Asia Summer Program	Spring Exchange Program
July – August 2014	February - May 2013

EXPERIENCE
K-Healthwear • Daejeon, South Korea • June 2015 – August 2015
Summer Intern
- Developed an Android application for 12 lead ECG medical devices.
- Implemented real-time graphing functions of received data.

My Design Lab • KAIST, South Korea • December 2014 – June 2015
Undergraduate Researcher
- Devised "Automatized Wall Painting Drone" to implement painting works for the skyscrapers.
- Developed UAV control with Pixhawk, Mavlink Protocol and IronPython.

Computer Vision and Image Processing Lab • KAIST, South Korea • December 2013 – June 2014
Undergraduate Researcher
- Developed an eye-friendly projector that prohibits a lighting beam from reaching the presenter's eyes.
- Software is available at http://cyclopsurp.weebly.com/.

LAB PROJECTS
Look Ahead by Shared Sensing for Cooperative Cars • September 2016 – Present
- Developing highly optimized multi-threaded modules of co-SLAM.
- Implementing algorithm to homogenously distribute points all over the image.

Intelligent Assistant for People With Low Vision Abilities • December 2016 - Present
- Supervising two undergraduate students to implement mobile solution equipped with CV and ML algorithms.
- Researching and implementation of depth question answering.