

Edward Gyubeom Im

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📁 [edward0im.github.io](https://github.com/edward0im)

WORK EXPERIENCE

2020-Present **Samsung Electronics Co., Ltd.**, *Research Engineer*, Signal and System Design Division, System LSI Business.

EDUCATION

2018-2020 **Seoul National University**, *M.S.*, Department of Transdisciplinary Studies, The Graduate School of Convergence Science and Technology.

Lab: Dynamic Robotic System Lab (DYROS Lab, <https://dyros.snu.ac.kr>)

Advisor: Prof. Jaeheung Park (park73@snu.ac.kr)

Thesis: Parking Line Based SLAM Approach for Localization and Parking Space Detection

2010-2018 **Kookmin University**, *B.S.*, Automotive Engineering.

Activity: Team Member of Student Formula Racing Team and Participated in FSAE 2014 Competition.

TEACHING EXPERIENCE

2018 **Robotics Boot Camp**, *ROS Instructor*, Seoul National University, DYROS Laboratory.

2017 **CATIA and CAD**, *Instructor*, Kookmin University.

SKILLS

Expertise SLAM, Visual Odometry, Long-term Localization, Autonomous Navigation

Programming C/C++, Python

Softwares/Libs Windows, Linux, MacOSX, ROS, Eigen, g2o, PCL, OpenCV, Matlab, CATIA, SOLIDWORKS

Tools Emacs, Vim, VSCode

PUBLICATIONS

2019 **Gyubeom Im**, Minsung Kim, Jaeheung Park, "Parking Line Based SLAM Approach Using AVM/LiDAR Sensor Fusion for Rapid and Accurate Loop Closing and Parking Space Detection", *Sensors*, 19 (21), pp. 4811, 2019, ISSN: 1424-8220.

2019 Kyujin Park, **Gyubeom Im**, Minsung Kim, Jaeheung Park, "Parking Space Detection based on Camera and LIDAR Sensor Fusion", *Journal of Korea Robotics Society*, 14 (3), pp. 170-178, 2019, ISBN: 1975-6291.

2018 **Gyubeom Im**, Minsung Kim, Joonwoo Ahn, Minsoo Kim, Jaeheung Park, "V-Rep Simulator for Autonomous Vehicle Research in Parking lot Environment", *The Korean Society of Automotive Engineers Annual Autumn Conference*, Gangwon, Korea, 14.11.2018.

2018 Minsung Kim, **Gyubeom Im**, Joonwoo Ahn, Minsoo Kim, Jaeheung Park, "Autonomous parking algorithm using automatic selection of forward and backward switching points via model predictive control", *The Korean Society of Automotive Engineers Annual Autumn Conference*, Gangwon, Korea, 14.11.2018.

2018 Joonwoo Ahn, Minsoo Kim, **Gyubeom Im**, Minsung Kim, Jaeheung Park, "Development of Autonomous Valet Parking System and Simulation Result", *The Korean Society of Automotive Engineers Annual Autumn Conference*, Gangwon, Korea, 14.11.2018.

AWARDS

2017 Kookmin University Scholarship

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2016 Kookmin University Scholarship
2015 Kookmin University Scholarship
2014 2nd Place in Cost Section, FSAE 2014
2014 18th Place (1st Prize among the Asia Teams) in Total Performance, FSAE 2014