Edward Gyubeom Im

✉ edwardim@snu.ac.kr
🏠 edward0im.github.io

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, Kangwon, 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, Kangwon, 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, Kangwon , Korea, 14.11.2018.

AWARDS

2020   Best Paper Award of Master Thesis in Graduate School, Seoul National University

2017 Kookmin University Scholarship

2017 Kookmin University Scholarship

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