

## WORK EXPERIENCE

2020-Present **Samsung Electronics Co., Ltd.**, *Research Engineer*, 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](mailto: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

2024-Present **KETI**, *SLAM Instructor*, Korea Electronics Technology Institute

2023-Present **Youtube**, *SLAM-related Contents*, Channel Name: Gyubeom Im

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

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

## SKILLS

Expertise SLAM, Visual Odometry, Visual Inertial Odometry

Programming C++, Python

Libraries ROS, Eigen3, ceres, g2o, OpenCV, PCL

## PUBLICATIONS

2023 **Gyubeom Im**, Keunjoo Park, Junseok Kim, Bongki Son, Seungchul Shin, Haechang Lee. "Live Demonstration: PINK: Polarity-based Anti-flicker for Event Cameras." Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops. 2023.

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.

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## 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