Jeonghyun Byun

M.S. STUDENT

Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826

□ +82 10-7748-7491 | ■ quswjdgus97@snu.ac.kr | ♣ jh-byun.github.io

Education __ **Seoul National University** Seoul, Republic of Korea PhD Aerospace Engineering 2020.03.02 -• Advisor: H. Jin Kim **Seoul National University** Seoul, Republic of Korea BS AEROSPACE ENGINEERING 2016.03.02 - 2020.02.26 • GPA: 4.05 / 4.3 • Dissertation: Simulation of the object grabbing using a hexacopter with a 2-DOF robotic arm · Advisor: H. Jin Kim Publications ___ INTERNATIONAL JOURNALS INTERNATIONAL CONFERENCES Dongjae Lee¹, Inkyu Jang¹, **Jeonghyun Byun**, Hoseong Seo, H. Jin Kim. Real-Time Motion Planning of a Hydraulic Excavator using Trajectory Optimization and Model Predictive Control. 2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). Jeonghyun Byun¹, Dongjae Lee, Hoseong Seo, Inkyu Jang, Jeongjun Choi, H. Jin Kim. Stability and Robustness Analysis of Plug-Pulling using an Aerial Manipulator. 2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). Jeonghyun Byun¹, Dongjae Lee, H. Jin Kim, Hyeonbeom Lee. On-line Parameter Estimation of a Hexacopter Equipped with 2-DOF Robotic Arm against Disturbance. 2020 20th International Conference on Control, Automation and Systems (ICCAS). **DOMESTIC JOURNALS DOMESTIC CONFERENCES** Honors ___ **AWARDS** 2020.02 Award Certificate, Department of Aerospace Engineering, Seoul National University 2020.02 Summa Cum Laude, Seoul National University Honorable Mention, 7th SNU Creative Design Fair, College of Engineering, Seoul National

FELLOWSHIPS

2017.09

2018.09

University

University

Honorable Mention, 6th SNU Creative Design Fair, College of Engineering, Seoul National

2020.03 –	BK21 PLUS Doctoral Fellowship, BrainKorea21PLUS
2020.08	
2019.03 –	Eminence scholarship, Seoul National University
2020.02	
2018.11	KAI-KSAS Scholarship , Korean Aerospace Industry & Korean Society for Aeronautical and Space Sciences
2018.03 – 2019.02	Sinyang Cultural Foundation Scholarship, Sinyang Cultural Foundation
2017.03 – 2018.02	Eminence scholarship, Seoul National University
2016.09 – 2017.02	Merit Based scholarship, Seoul National University

Teaching Experience _____

2021.03 - 2021.06	Tutor, Engineering Maths 1, Seoul National University, Solved some difficult problem sets
2020.09 -	Teaching Assistant, Introductory Engineering Probability, Seoul National University, Developed scoring
2020.12	criteria for the exams
2020.09 -	Tutor, Physics 2, Seoul National University, Solved some difficult problem sets
2020.12	
2020.03 -	Teaching Assistant, Engineering Maths 1, Seoul National University, Developed scoring criteria for the exam
2020.06	
2017.03 -	Tutor, Physics, Seoul National University, Solved some difficult problem sets
2018.06	

Skills _____

Programming: C/C++, MATLAB

Language: Korean (native), English (proficient), French (elementary)

Tools: Git, ROS, Arduino, Fusion360, Onshape