Jeonghyun Byun

PHD 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 Dongjae Lee¹ Jeonghyun Byun, H. Jin Kim. RISE-based trajectory tracking control of an aerial manipulator under uncertainty. IEEE Control Systems Letters (L-CSS). INTERNATIONAL CONFERENCES Jeonghyun Byun¹, H. Jin Kim. Robust Control of the Aerial Manipulator with a Fixed End-effector Position. 2021 20th International Conference on Control, Automation and Systems (ICCAS). Presented in Award Session 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

2022.11	Incentive Award, Aerospace Paper Award, Korea Aerospace Industries, LTD.
2020.02	Award Certificate, Department of Aerospace Engineering, Seoul National University
2020.02	Summa Cum Laude, Seoul National University
2018.09	Honorable Mention, 7th SNU Creative Design Fair, College of Engineering, Seoul National
	University
2017.09	Honorable Mention, 6th SNU Creative Design Fair, College of Engineering, Seoul National
	University

FELLOWSHIPS

2021.11 –	BK21 Excellent Research Talent Fellowship, BrainKorea21PLUS
2022.02	
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
2010.11	Space Sciences
2018.03 -	Sinyang Cultural Foundation Scholarship, Sinyang Cultural Foundation
2019.02	
2017.03 –	Eminence scholarship, Seoul National University
2018.02	
2016.09 -	Merit Based scholarship, Seoul National University
2017.02	

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 ex-
2020.06	
2017.03 -	Tutor, Physics, Seoul National University, Solved some difficult problem sets
2018.06	

Skills_____

JULY 2022

Programming: C/C++, MATLAB

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

Tools: Git, ROS, Arduino, Fusion360, Onshape