Jeonghyun Byun

PHD STUDENT

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Education	
Seoul National University PHD AEROSPACE ENGINEERING • GPA: 3.98 / 4.3 • Advisor: H. Jin Kim	Seoul, Republic of Korea 2020.03.02 -
Seoul National University BS AEROSPACE ENGINEERING • GPA: 4.05 / 4.3 • Dissertation: Simulation of the object grabbing using a hexacopter with a 2-DOF robotic arm • Advisor: H. Jin Kim	Seoul, Republic of Korea 2016.03.02 - 2020.02.26
Publications	
International Journals	
Dongjae Lee ¹ Jeonghyun Byun , H. Jin Kim. RISE-based trajectory tracking control of an aerial nation tainty. IEEE Control Systems Letters (L-CSS).	nanipulator under uncer-
International Conferences	
Jeonghyun Byun ¹ , Byeongjun Kim, Changhyeon Kim, Donggeon David Oh, H. Jin Kim. Stable C tion/Force Control for an Aerial Manipulator on an Arbitrarily Tilted Surface. 2023 International and Automation (ICRA).	
Byeongjun Kim ¹ , Dongjae Lee, Jeonghyun Byun , H. Jin Kim. Globally Defined Dynamic Modelling Controller Design for Aerial Manipulator. 2023 International Conference on Robotics and Auto	
Jeonghyun Byun 1 , H. Jin Kim, Miso Kwon. Hybrid motion/force control of the aerial manipulato the added equipment. 2022 $13^{\rm rd}$ Asian Control Conference (ASCC 2022).	r without information on
Jeonghyun Byun ¹ , H. Jin Kim. Robust Control of the Aerial Manipulator with a Fixed End-effe International Conference on Control, Automation and Systems (ICCAS). Presented in Award	
Dongjae Lee ¹ , Inkyu Jang ¹ , Jeonghyun Byun , Hoseong Seo, H. Jin Kim. Real-Time Motion Planni tor using Trajectory Optimization and Model Predictive Control. 2021 IEEE/RSJ International Robots and Systems (IROS).	ing of a Hydraulic Excava- Conference on Intelligent
Jeonghyun Byun ¹ , Dongjae Lee, Hoseong Seo, Inkyu Jang, Jeongjun Choi, H. Jin Kim. Stability of Plug-Pulling using an Aerial Manipulator. 2021 IEEE/RSJ International Conference on Intelli (IROS).	
Jeonghyun Byun ¹ , Dongjae Lee, H. Jin Kim, Hyeonbeom Lee. On-line Parameter Estimation o with 2-DOF Robotic Arm against Disturbance. 2020 20th International Conference on Control, (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	bkzi excellent kesearch falent rettowship, brannkoreazir 103
2020.03 -	BK21 PLUS Doctoral Fellowship, BrainKorea21PLUS
2020.08	
2019.03 -	Eminence scholarship, Seoul National University
2020.02	Emilience scholarship, Seout National Oniversity
2018.11	KAI-KSAS Scholarship, Korean Aerospace Industry & Korean Society for Aeronautical an Space Sciences
2010.11	
2018.03 -	Sinyang Cultural Foundation Scholarship, Sinyang Cultural Foundation
2019.02	Sinyang cultural roundation scholarship, sinyang cultural roundation
2017.03 –	Eminence scholarship, Seoul National University
2018.02	Emmence scholarship, Seout National Oniversity
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 exa
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