# Jeonghyun Byun

M.S. STUDENT

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## 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

**Jeonghyun Byun**[1], 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).

Dongjae Lee[1], Inkyu Jang[1], **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 Byun**[1], 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 Byun**[1], 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
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

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|---|---|
| 2020.03 – 2020.08 | **BK21 PLUS Doctoral Fellowship**, BrainKorea21PLUS |
| 2019.03 – 2020.02 | **Eminence scholarship**, Seoul National University |
| 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

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

## Skills

**Programming:** C/C++, MATLAB

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

**Tools:** Git, ROS, Arduino, Fusion360, Onshape