

HEEKUN ROH

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Associate GNC Engineer at Satrec Initiative Co., Ltd., Republic of Korea

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) M. S. in Aerospace Engineering Thesis: <i>Impact Time and Angle Control Guidance for Homing Missiles Using Sequential Convex Programming</i>	Mar 2017 - Feb 2019
Korea Advanced Institute of Science and Technology (KAIST) B.S. in Aerospace Engineering B.S. in Electrical Engineering (Double Major)	Mar 2013 - Feb 2017
Korea Science Academy of KAIST	Mar 2010 - Feb 2013

PROFESSIONAL EXPERIENCE

Satrec Initiative Associate Engineer (Satellite Attitude Determination and Control)	Feb 2019 - Present
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RESEARCH EXPERIENCE

KAIST, Flight Dynamics and Control Lab (FDCL) Department of Aerospace Engineering, Master's Student (Advisor: Prof. Min-Jea Tahk)	Dec 2016 - Feb 2019
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FEATURED PUBLICATIONS

Journal Papers

- [1] [H. Roh](#), Y.J. Oh, M.J. Tahk, K.J. Kwon, and H.H. Kwon, "L1 Penalized Sequential Convex Programming for Fast Trajectory Optimization: With Application to Optimal Missile Guidance," *International Journal of Aeronautical and Space Sciences(IJASS)*, Vol. 21, pp. 493-503, Jun. 2020.
- [2] [H. Roh](#), Y.J. Oh, M.J. Tahk, and Y.R. Jung "Optimal Weapon-Target Assignment of Multiple Dissimilar Closed-In Weapon Systems Using Mixed Integer Linear Programming", *Journal of Korean Society for Aeronautical and Space Sciences*, Vol. 47, No. 11, pp.787-794, Nov. 2019.

International Conference Papers

- [1] [H. Roh](#), Y.J. Oh, M.J. Tahk, and C.H. Lee, "Fast Trajectory Optimization Using Sequential Convex Method for Guided Missiles," *The 5th CEAS Conference on Guidance, Navigation and Control (EuroGNC)*, Milano, Italy, Apr. 2019.
- [2] [H. Roh](#), M.H. Cho and M.J. Tahk, "Trajectory Optimization Using Cramer-Rao Lower Bound for Bearings-Only Target Tracking," *AIAA Scitech Forum 2018*, Kissimmee, Florida, USA, Jan. 2018.

FEATURED HONORS & AWARDS

Graduation with Highest Honors	Feb 2017
Dean's List, College of Engineering	Mar 2015
KAIST Presidential Fellowship	Mar 2013 - Feb 2017
Cansat Competition Korea 2014, 2nd Place	Aug 2014
Cansat Competition Korea 2012, 1st Place	Aug 2012

LANGUAGE PROFICIENCY

Korean Native
English Proficient (TOEFL TBA, GRE V165/Q170/AW5.0, 2022)
French Fluent (DELFB2, 2016)