



**조 동 현** 교수

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**연구분야**

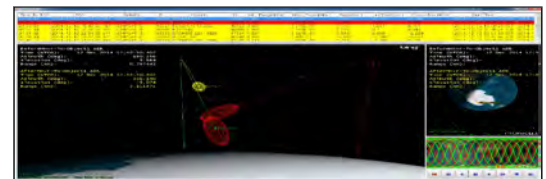
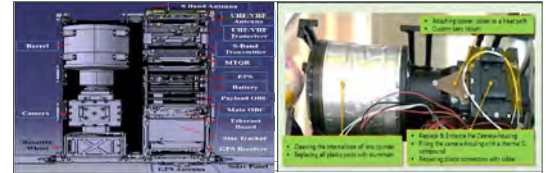
초소형위성 시스템 설계 및 분석  
우주파편 충돌위험 분석 및 제거시스템  
위성 최적궤도 설계 및 위성 자세제어 설계

**수상**

KAIST 조정훈 학술상, KAIST, 2020

**대표연구**

- High-Resolution Image and Video CubeSat(HiREV): Development of Space Technology Test Platform using a Low-Cost CubeSat Platform
  - 6U Nano-satellite design and developed
  - Earth Observation mission design and analysis
  - Attitude Determination and Control subsystem design and test
- Development of the KARI Space Debris Collision Risk Management System(KARISMA)
  - Development of the space debris collision risk management system
  - Development of orbit determination and prediction module
  - System integration and operation test



**주요 연구실적**

- High-Resolution Image and Video CubeSat(HiREV): Development of Space Technology Test Platform using a Low-Cost CubeSat Platform," International Journal of Aerospace Engineering, Vol. 2019, Article ID 8916416, 2019
- B-plane Targeting Method for Orbit Maneuver Using Low Thrust," International Journal of Control, Automation and Systems Vol. 15, No. 4, 2017
- Optimal Phase-Angle Design for the Powered-Descent Phase of Lunar Lander," Journal of Aerospace Engineering: Part G, Vol. 230, No. 2, 2016

**주요 연구과제**

- AI 기반 랑데부/도킹 기술검증용 위성 개발, 한국항공우주연구원, '19.01~'21.02(Nano-satellite, RVD)
- 근지구 우주환경 관측용 초소형위성 본체 개발, 한국항공우주연구원, '17.01~'21.02(Nano-satellite, Formation Flying)
- 다중/군집운용을 위한 지능형 초소형위성군 시스템 개발, 한국항공우주연구원, '18.04~'20.12(Nano-satellite, Intelligent)
- 우주파편 충돌위험 종합관리시스템 개발 및 우주파편 제거시스템 연구, 한국항공우주연구원, '11.12~'16.12(Space Debris, ADR)

**학회 활동**

- 한국항공우주학회 종신회원