

World-class Expertise in Space Navigation, Flight Dynamics, Operations, and Systems Engineering

INNOVATIVE SOLUTIONS TO GLOBAL AND SPACE-BASED CHALLENGES



NAVIGATION OPERATIONS
INTERPLANETARY
CONSTELLATIONS
DEEP SPACE CUBESATS

FLIGHT DYNAMICS
MISSION DESIGN
ORBIT DETERMINATION
OPTICAL NAVIGATION
MANEUVER DESIGN
TRAJECTORY OPTIMIZATION

**SPACE SYSTEMS
ENGINEERING**
GROUND SYSTEM
ARCHITECTURE
DEEP SPACE OPERATIONS

SPACE SCIENCE
GRAVITY SCIENCE
ASTROMETRY
IN-FLIGHT CALIBRATIONS

MODELING & SIMULATION
FLIGHT DYNAMICS
RADIO SPECTRUM
SPACE ARCHITECTURE

SOFTWARE DEVELOPMENT
NAVIGATION OPERATIONS
GROUND SEGMENT
AUTONOMOUS FLIGHT SW

GROUND SYSTEM
NETWORKS
CONNECTIVITY
CYBERSECURITY

CIVIL
Navigation and Mission Design, Flight Dynamics, Optical Navigation, & Planetary Science
MESSENGER, New Horizons, OSIRIS-REx, Lucy, LunaH-Map, DAVINCI+

COMMERCIAL
Systems Engineering, Concept of Operations, SW & HW development, I&T, Operations
Iridium, One Web, O3B, Iridium NEXT

DEFENSE
Systems Engineering, Precision Navigation and Timing, Alt-PNT, Simulation, ConOps
SBIRS Hi and Low, MUOS, BAMS

INTERNATIONAL
Project and Mission Design, Flight Dynamics, Earth Observation, System Architecture, Systems Engineering
EMM, NorthStar Earth & Space (Founder)

