

# Sandia National Laboratories

“Providing Exceptional Service in the National  
Interest”

- Nuclear Weapons
- Energy and Infrastructure Assurance
- Nonproliferation
- Defense Systems and Assessments
- Homeland Security

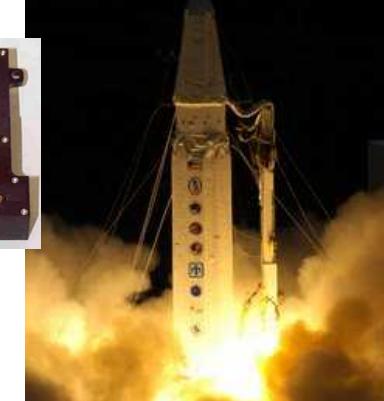


# Department 5416



**To provide innovative and affordable NGC flight system solutions to our valued customers within the Nuclear Weapons Complex, Department of Defense, and Government Agencies for their most challenging aerospace applications.**

- Dating back to the late 70's/early-80's the SNL NGC group has developed and fielded flight control systems solutions for these types of systems:
  - Sounding Rockets
  - Maneuvering Reentry Vehicles
  - Ballistic Reentry Vehicles
  - Targets and Countermeasures for MDA
  - Glide & Rocket-boosted bombs
  - ICBM Flight Controls, Complete NGC



# Personal

- Utah State University – BS in Mechanical and Aerospace Engineering with Honors (99)
- University of Texas at Austin – MS (2000), Ph.D. (2003)
  - Dr. Glen Lightsey
  - Research in GPS attitude determination, Signal strength, carrier phase
- Sandia National Laboratories
  - Inertial Navigation
  - GPS/INS Kalman filtering
- Other interests
  - Orbital mechanics
  - Mission planning

