



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



UtahState
UNIVERSITY

