Electronics Packaging and Cable/Harness Engineering: The SLI Team brings over 18 years of experience gained by supporting JPL on a variety of projects from Flight Systems to Technology Demonstration efforts to the Multi-divisional Engineering, Design, Analysis Lab-wide Support (MEDALS) contract.

**DISCIPLINE CAPABILITIES**
- RF, high voltage, & hybrid microelectronics packaging
- PWB design & PCB fabrication
- Electronic design & design assembly
- Thermal and structural analysis of electronic packages
- Harness design
- Cable/harness fabrication & test support

**OUR PROJECTS (SELECTED*)**

**CheMin**
- Mechanical design of all integrated Instrument electrical board housings
- Layout of Instrument boards
- Thermal and Structural analysis of entire Instrument

**SWOT**
- Mechanical design of the Low and High Frequency assemblies including RF hybrid circuit packaging

**Moon Mineralogy Mapper**
- Flight electronics packaging for the electronic control unit

**Mars Science Laboratory**
- Managed more than 20 engineers and designers responsible for the Mars Rover electronics flight packaging and PCB design
- RF flight packaging design for the decent stage Transmit and Receive Module (TRM) and Power Distribution Unit (PDU)
- Designed Rover cable support/thermal isolation bracket. Directed the Decent Stage installation of propulsion line and heaters. Oversaw cabling, connector, heat insulation on all Rover mobility, antenna, and door actuators

*see our website for more information

**EXPLOYED ABILITIES**
- RF, high voltage, & hybrid microelectronics packaging
- PWB design & PCB fabrication
- Electronic design & design assembly
- Thermal and structural analysis of electronic packages
- Harness design
- Cable/harness fabrication & test support

**TOOLS***
- Siemens NX
- SolidWorks
- AutoCAD (Inventor)
- Altium Designer
- Siemens Teamcenter Engineering
- Creo (Pro/E)

**SLI TEAM POC**

Chris Smith (Program Manager)
cdsmith@sierralobo.com

Eric Olds (SLI)
eolds@sierralobo.com

Experienced staff with active TS/SCI clearances - DCMA approved purchasing system
PROGRAMS & TECHNOLOGIES

- Launch Vehicle Systems
- Spacecraft Systems
- Ground Vehicles
- Ground Support Equipment
- Unmanned Underwater Vehicles
- Process Systems
- Missiles & Aviation
- Sensor & Instrument Development
- Thermal Protective Systems
- Cryogenic Systems

PRIMARY SKILLS & CAPABILITIES

- Project Management
- Research & Development
- Design & Development
- Discipline Engineering
- Modeling & Analysis
- Verification & Validation
- Manufacturing
- Operations & Maintenance
- Systems Engineering
- Integration & Test

COMPANY DATA

NAICS Codes
332510 - Hardware Manufacturing
332912 - Fluid Power Valve and Hose Fitting Manufacturing
334415 - Electronic Resistor Manufacturing
334418 - Printed Circuit Assembly (Electronic Assembly) Manufacturing
334419 - Other Electronic Component Manufacturing
335311 - Power, Distribution, and Specialty Transformer Manufacturing
335912 - Primary Battery Manufacturing
336411 - Aircraft Manufacturing
336412 - Aircraft Engine and Engine Parts Manufacturing
336413 - Other Aircraft Parts and Auxiliary Equipment Manufacturing
336414 - Guided Missile and Space Vehicle Manufacturing
336415 - Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing
336419 - Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing
336992 - Military Armored Vehicle, Tank and Tank Component Manufacturing
338999 - All Other Miscellaneous Manufacturing
541330 - Engineering Services
541690 - Other Scientific and Technical Consulting Services
541712 - Research & Development in Physical, Engineering, & Life Sciences (except Biotechnology)
561210 - Facilities Support Services

Contract Vehicles
OASIS Contract Pools 5A, 5B, and 6
Research and Technologies for Aerospace Propulsion Systems 2 (RTAPS2) at NASA GRC

ABOUT SIERRA LOBO, INC.

Founded in 1993, Sierra Lobo, Inc. (SLI) employs more than 500 high-achieving, dedicated engineers, technicians, and administrative personnel. SLI is a Hispanic-American-owned, small disadvantaged business with its corporate office in Fremont, Ohio. Sierra Lobo is a two-time winner of NASA’s most prestigious quality award, the George M. Low award, most recently in 2011. SLI is also a winner of two R&D 100 Awards for development of advanced technologies. Sierra Lobo received certification to the International Aerospace Quality Group AS9100 standards. Additionally, SLI is International Organization for Standardization (ISO) 9001:2008 registered as “A Provider of Engineering and Technical Services, including Hardware Fabrication and Testing, to the Aerospace and Transportation Industries.” An independent rating authority independently assessed SLI a Capability Maturity Model Integrated (CMMI®-DEV) Capability Level 2 fully compliant and Level 3 compliant in Risk Management.

WE ARE KNOWN BY THE TRACKS WE LEAVE…

Wolves have long been regarded by Native Americans as teachers or pathfinders. Wolves are fiercely loyal to their mates and have a strong sense of family, while maintaining individualism. To many, the wolf symbolizes freedom, the spirit of nature, resourcefulness, and adaptability, even under the most dire circumstances. Sierra Lobo (mountain wolf) takes its name from this resilient creature and aspires to the extraordinary traits that the wolf has come to symbolize.