



Physical Science Laboratory (PSL)

New Mexico State University

BE BOLD. Shape the Future.

Electronic Manufacturing Capabilities

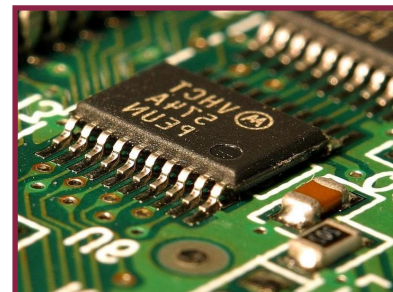
Design

PSL's Electronic Shop is responsible for the continued development, testing, and trouble shooting of electronic products and systems for a variety of uses, including ground, mobile, airborne, and space flight. Capabilities include:

- Fabrication of off-the shelf circuit boards
- Fabrication of custom designs and data acquisition systems for:
 - Rockets, Missiles, Projectiles, and Satellites
 - Fixed and Mobile Communications Systems
 - Electronic Warfare Systems
 - Surveillance, Tracking and Location Aid (GPS for example)

Designs can be submitted as

- Electronic Files
 - Altium, OrCad, or pdf
- Hard Copy Schematics and hand wiring diagrams

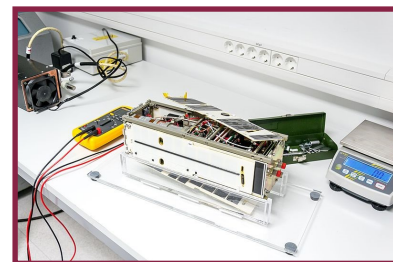


Fabrication

PSL's Electronic Shop can fabricate simple electronic products to entire data collection systems.

Shop Processes include:

- Soldering
- Wiring Etching
- Conformal Coating



Testing & Inspections

PSL's Electronic Shop performs various acceptance tests to insure each system functions properly, within specifications and parameters

Each electronic product built goes through quality assurance inspections throughout the process:

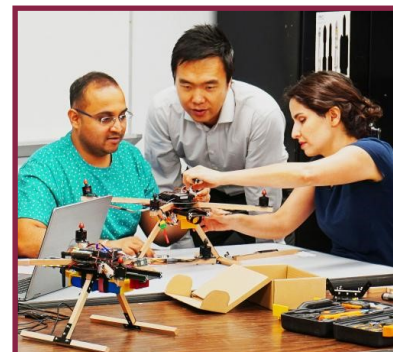
- Electrical Inspection
- Full System Inspection
- Limited Environmental Testing to include: Vibration, Thermal Cycling, etc.
- Complete Final Inspection

Experience

Experienced in manufacturing inspection, trouble shooting, and repair of electronics on or offsite.

The Electronics Shop's primary function is to support the TM Shop and its customers with:

- Custom fabrication of bare PWB AWD assemblies performed
- Assembly of custom chassis including PWB's, Power Supply, Front/Rear Panels, and the Connection Wiring
- Custom harnessing of power/data collection systems for airborne and rocket sub systems and systems



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