



Subsidiary of **impact** |   
*We design and build products that matter.*

EEL brings over a quarter century of experience in engineering with a focus on agile, and efficient design, development and manufacturing of hardware that meets the demanding requirements of our customers.

We specialize in:

- Design services spanning Build to Spec to Design to Spec
- Procurement and ruggedization of COTS technology for military applications
- Procurement, integration, and delivery of flight qualified hardware
- Integration and qualification of advanced Special Test Equipment (STE)
- Manufacture of complex electronic circuit card assemblies and other electronic components and subsystems.

EEL's customers require high reliability, physical and operational robustness, and life critical / flight critical quality standards. These programs demand a culture of process excellence at EEL, embodied in our commitment to AS9100D Certified quality processes.

All assemblies are built to IPC-610 Class 3 and conforming to all unique customer requirements.

- **Engineering Services**
  - Product Development / Design To Spec
  - BOM Management – *Mitigate Obsolescence* - Electronic Component Obsolescence management tools
- **Manufacturing Services**
  - Box Build & System Integration – Offering turnkey, fully tested, and ready-to-install precision mechanical and electromechanical assemblies built to customer specifications while addressing, producibility, reliability, and process enhancement requirements.
    - Special Test Equipment
    - Flight Hardware
    - Chassis
    - Racks/Consoles/ITAs
  - Mechanical Assembly
    - IPC/WHMA-A-620 Cable Assembly / Harnesses
  - Circuit Card Assembly
    - Rigid & rigid-flexible PCBs
    - Low – Medium volume Surface Mount Technology, Through-hole & Mixed Technology production
    - Ball Grid Array
    - X-Ray technology for inspection of Ball Grid Array and all hidden solder joints
    - Placement system capable of placing devices of package size from 0201 to 2 inches square with lead pitch down to 0.3mm, and ball pitch down to 0.7mm
    - Operators certified to;
      - J- STD-001 (w/ Space Addendum)
      - IPC/WHMA-A-620
      - IPC-A-610
      - IPC-7711/7721B
  - Conformal Coat Capabilities
    - Acrylic, Parylene, Polyurethane & Silicone (type AR, XY, UR, and SR)
  - Test
    - Fixtureless Flying Probe
    - Boundary Scan
    - Environmental Stress Screening
    - RF Test
    - HP3070 ICT
    - Functional
    - Automated Optical Inspection
    - Cable continuity/ Hi-pot / pull testing
- **Training Services** –State of the Art Licensed IPC Training Facility – Also offering On-site at your location –
  - CIT (Trainer) & CIS (Operator) Certification & Recertification
    - J- STD-001 (w/ Space Addendum)
    - IPC/WHMA-A-620
    - IPC-A-610
    - IPC-7711/7721
  - Technical Skills Training - Custom training available