

Technology Kitchen has successfully completed many complex PCB layout projects. Years of proven experience and extensive use of design validation tools enable us to develop high-quality designs for complex systems with low risk. We have a strong project development process for ensuring our designs meet all of the design criteria and exceed customer expectations.

Our knowledgeable personnel provide reliable and professional service and deliver high-quality results on-time and at competitive prices. We will be happy to discuss your unique project requirements with you and recommend how our services may best be utilized for your specific design.

Capabilities

- Single-sided, double-sided, and multi-layer boards (up to 32 layers)
- High-speed digital, analog, mixed, and RF designs
- SMT, through-hole, and mixed-technology
- Complex, high-density designs
- Board materials (FR4, flexible, metal-clad, hi-temp, etc.)
- Design for manufacturability (DFM) to ensure reliable assembly using automated pick-and-place equipment
- Design for testability (DFT)
- Complex physical design rule checking (DRC)
- Ground/Power planes, split planes, and isolated planes
- Matched length traces, differential pairs, and controlled impedance traces
- Component placement studies
- Hand-routing and auto-routing
- Blind and buried vias
- Manufacturing support

Quality

- Artwork and documentation deliverables conform to IPC standards
- High-quality craftsmanship
- Experienced design engineers
- Enhanced design validation through extensive use of interactive design rule and design constraints tools
- Provide high-quality check plots for design review
- Design checklist for design verification

Design and Analysis Tools

- Schematic Capture
 - Orcad capture
 - PADS Power Logic
- PCB layout
 - Cadence Allegro
 - Specctra Autoroute
 - Pads Power PCB
- Mechanical Design
 - Solidworks
 - Mechanical Desktop
 - AutoCad