

Printed Circuit Board Design Services

Design Expertise Areas:

High Speed Design	High Density	Rigid
Impedance Control	Blind and Buried vias	Flex Circuit
Matched Lengths	BGAs/microBGAs	Rigid-Flex
Differential Pairs		Thru-Hole
Design for EMI & EMC control	Design Reuse	Surface Mount Technology
		Single/Double/Multilayer
Quick Turn Around	Analog/Digital/Mixed	
Safety Critical Design		Design for Fabrication
Miniaturization	Power Supply	Design for Manufacturing
Electro-Mechanical Packaging	Thermal Management	Design for Test

Software Utilized:

PADS Layout and Router
PADS Logic
OrCAD
Altium (Protel)
CAM350
SolidWorks
AutoCAD
Support for many other layout tools

Memberships:

IPC Designers Council
SMTA
Mentor Graphics Customer Advisory Board

Other Avatar Engineering Services:

Hardware and Software Engineering
Prototype and Full Production Assembly
RoHS Compliant Assembly
Component Engineering
Full Functional Testing
Parts Procurement
Mechanical Design

Complete Documentation Provided:

Schematic
Gerber files
PCB Artwork files
Fabrication and Panelization Drawings
Assembly Drawings

Awards/Certifications:

IPC Certified Designer 
PCB Design Contest Winner:
"Best Paper Award"
"Most Manufacturable Design"
"Overall Best Design"
Six Sigma Certified

Other PCB Design Services:

Reverse Engineering
Gerber file to CAD PCB file Conversion
AutoCAD/DXF to Gerber
Thru-Hole to SMT Conversion
Concurrent PCB Design
RoHS Compliant PCB Analysis/Conversion

Contact:

Mark Bartlett, CID
MarkB@Avatar-Eng.com