

Avatar Engineering was incorporated in 1999 and is located in Lenexa, Kansas. Avatar serves industrial and agriculture OEM markets, as well as scientific instrument developers. We provide electronic product design, development engineering firmware and subsequent manufacturing with optional testing. Our doors are always open for tours and evaluation.

MARKET

We serve small to medium sized agricultural and industrial OEMs as well as scientific instrument manufacturers who seek accountability in every phase of a product life-cycle.

ENGINEERING

Hardware: Full analog and digital engineering
Software: Embedded firmware and open system software design
Mechanical: Electronic packaging utilizing 3D modeling software

DOCUMENTATION

Every element of the products documentation, is owned by client

PCB DESIGN

IPC Certified: Full design, layout, re-design or recapture of any level of PCB's

MANUFACTURING

Two surface mount (SM) lines utilized for high mix of low to medium volume production

- Production Workspace: ESD Epoxy floor > Lint Free Ceiling > Environmental Controls
- **MyData** lines - MY12 & TP11: Micro BGA > 0402 with full vision placement and Polarity Check
- **DEK** "248" Dual-Vision Stencil Printers
- **Heller** 1707 III – Seven zone, programmable Re-flow Oven
- **ECO** M.O.L.E: Reflow profiler & data logger – re-flow profile documentation
- **SCS**: Robotic Conformal Coating Sprayer: Exact > Repeatable > Minimal material
- **Aqueous** "SMT" Series High Pressure DI Washer with heavy metal trap
- **Aqueous** Stencil Washer: Ultra sonic in DI water
- **Novastar** Technologies wave soldering

TESTING

Avatar maintains a full Test and Rework Department

BOX-BUILD

Integration of HMI, communications and enclosures with full system test

OPERATIONS

All business operations are handled through internally developed business systems and procedures. We have a dedicated coordinator to handle all aspects of customer requirements. Avatar owns our 10,000+ square foot building where all engineering, production and warehousing are combined under one roof.