



News Release

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Perfecting Prototype PCB Assembly Starts With Machine Placement

Advanced Assembly engineer shares tips at PCB East on making prototype assembly faster while reducing errors and costs

Denver, CO – April 27, 2009 – In the world of electronic system design and development, creating a working pcb prototype requires the complex integration of circuit boards, components and land patterns. Consequently, any design errors are normally not identified until the pcb assembly process begins, which creates costly delays. Bob Kondner, an Advanced Assembly engineer, will share his tips for avoiding errors and making the assembly process simple, fast and reliable in a presentation at PCB East on Wednesday, April 29, 2009 from 2 -4 p.m.

The most common error encountered during assembly of prototype PCBs is when a supplied component does not match the PCB footprint. This results from wrong parts ordered, a picking error or an incorrect pcb footprint design. Based on years of experimenting with innovative ways to perfect prototype SMT assembly, Kondner suggests a few simple steps to make the process smoother:

- **Verify design and component fit:** Advanced Assembly's free BOM Builder can merge design data with parts information to create a virtual prototype of the design. The electronic image allows engineers to verify design and component fit before prototypes or bare boards are fabricated
- **Inventory and store components:** Create a system to store components, loose parts and samples, and set up a physical inventory area for larger quantities of parts can save time and reduce errors.
- **Share your files:** It is important to generate and send XYRS files and to create a complete BOM. Providing notes or indicators in schematic drawings can give valuable information to assemblers.

"The trick to accurate prototype assembly is to first find a company that will machine assemble your boards," said Kondner. "Then you need supplying the correct parts and use a digital image to verify fit before assembly begins. If you have the right parts, the right boards, and the right instructions your assembly partner should be able to assembly your projects quickly and efficiently every time."

About Advanced Assembly

Advanced Assembly is an Aurora, Colorado company specializing in quick-turn, SMT assembly for design engineers needing low volume or prototype printed circuit board assembly. With customers like Motorola, AT&T and Intel, and close supplier relationships with Digi-Key, Mouser and Arrow, Advanced Assembly is quickly becoming the industry leader for prototype printed circuit board assembly. For more information visit <http://www.aapcb.com> or call 1-800-838-5650.

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