TRICOR Systems Inc.

Aerospace & Military
Contract Manufacturing & Engineering

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TRICOR Systems Inc. 2010 Boeing Gold Performance Excellence Award recipient is an ISO 9001:2008, FDA registered and AS 9100 compliant manufacturer and design facility. Founded in 1976, TRICOR has successfully provided high-quality products and services to the aerospace, military and medical market place.

TRICOR possess the expertise to design, develop, validate and manufacture electronic, electromechanical, electro-optical assemblies or systems in one location. Whether you are looking to outsource manufacturing or engineering of: assemblies, cables, CCAs, entire systems or, just supplementing your internal capabilities, TRICOR has the background and flexibility to meet your requirements. TRICOR offers the opportunity to confidently outsource your project needs.

Contract Manufacturing Capabilities

TRICOR's contract manufacturing capability is structured to produce a wide variety of products to its customers. TRICOR will manufacture everything from prototypes to small and/or large production quantities. Our experience in reviewing documentation in the quotation process allows our customers to be aware of issues before a project begins. Changes or product updates are streamlined due to TRICOR's in house engineering staff.

Summary List

- Hand assembly or machine soldering of printed wiring boards
- Thru Hole or SMT assembly to JSTD-100 Class 3
- Conformal Coat
- Panel and chassis wiring
- Cable harness fabrication
- Mechanical assembly
- Computer-based manufacturing control systems (ERP)
- Acceptance Test Automated and Manual
- Quality inspects and certifies to IPC-A-610D Class 3
- Qualification Burn In
- Direct ship: WAWF (DD-250)
- Repair depot
- Kitting
- Quality assurance system:
    - Certified to ISO 9001:2008 and ISO 13485:2003
    - Compliant to GMP
    - Compliant to AS9100

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Contract Engineering Capabilities

TRICOR's engineering provides outstanding capability not found in many companies. From the design of simple fixtures to complex systems, the attention given to performance, reliability and quality does not vary. Each experienced engineer is proficient in both hardware and software design.

Electrical/Mechanical/Industrial Engineering tools/aids: The latest state-of-the-art schematic capture and PCB layout tools from Mentor Graphics are used on all electrical design activities. To develop the highest quality mechanical items, TRICOR utilizes both 2D and the advanced 3-D solid modeling tools offered by Solidworks.

As products become more sophisticated, device performance is highly dependent on reliable, verifiable and maintainable software. By utilizing current development tools, coupled with a controlled design structure, the customer is ensured that product and regulatory specifications are satisfied.
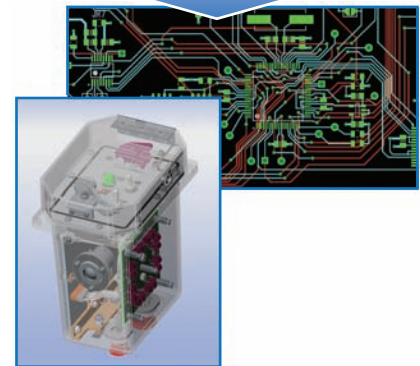
Summary List

- Engineering and Manufacturing system certified to ISO 9001:2008 and ISO 13485:2003
- Safety Requirements to IEC 60601 or UL 2601 and CAN/CSA-C22.2 60601
- Software Verification and Validation
- FMEA
- Product and Design Validation
- Risk Analysis
- Perform hardware/software trade-offs in order to achieve desired goal at minimum cost
- Execute the electrical and mechanical designs needed for hardware fabrication
- Compose and debug all embedded and PC software
- Breadboard and test various design approaches
- Layout, verify and tool required printed circuit boards
- Provide complete manufacturing documentation package
- Procure/Fabricate/Test and Debug subassemblies and systems
- Support Manual Publication, e.g., theory of operation and troubleshooting procedures
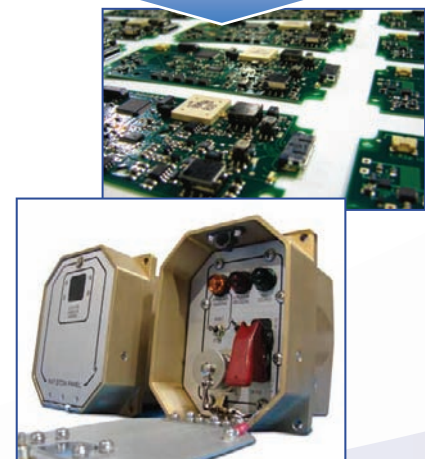- Conduct qualification testing

QUALITY
I.S. EN ISO 9001:2008
NSAI Certified

MEDICAL DEVICES
I.S. EN ISO 13485:2003
NSAI Certified

Design

Develop

Manufacture

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