

3Wi Technologies

J12, Natasha Park # 1, New Chhani Road, Vadodara 39002 INDIA
www.CADnCAM.com; sales@CADnCAM.com
+91 94276 02297; +91 (265) 3919608

ELECTRONICS ENGINEERING CAPABILITIES

Our goal matches yours:

Rapid, Successful Product Development and Transition to Manufacturing.

3Wi Technologies continues to differentiate itself from the rest of the electronic design services providers by providing unequalled product development services. For turnkey projects or specialized engineering services, 3Witech engineers understand how to overcome the technical challenges involved in converting innovative concepts into successful, timely products. We use world-class EDA tools and follow a proven design methodology to ensure your product is developed on-time, to specifications and within unit cost targets.

WHAT WE OFFER:

- Turnkey product development
- Industrial design
- Digital electronics
- Analog electronics
- RF and Wireless Design
- Embedded software design – Firm Ware and Microcontroller Programming
- Mechanical design - Enclosure Design and Packaging
- PCB design - Schematic Capture and PCB Layout
- Product Verification
- EMI/ EMC Testing
- Product Engineering, Reverse and Re-Engineering
- WEEE/RoHS, CE Certification Compliance Design & Redesign
- Proto Manufacturing – PCB, PCBA and Finished Product
- Component Sourcing

PAST PROJETS:

- Industrial Controllers, Timers, Switches
- Medical Electronics – Patient Monitoring devices, Kiosks, Weigh Scale, Blood Pressure/ Pulse Rate Monitors, Body Fat Analyzers, Ultrasonic Height measuring device, Pulse Generator for Electrolysis device
- Power Electronics – Sine Wave/ Square wave UPS and Inverter, Power Supplies, SMPS, Chargers, High Voltage Ozonator
- Solar – Lighting Appliance, Water Pumps
- Display – LED, LCD, Plasma displays for Kiosk, Outdoor Sign Boards
- Security/ Access Control: Smart Card, RFID, Coin Box based access control systems for identification, registration, parking, etc.

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PCB LAYOUT CAPABILITIES

PC BOARD LAYOUT CAPABILITIES:

- Create PCB file from Schematics, Sketches or Sample.
- High density through-hole boards.
- All types of surface mount designs with mixed technologies.
- High speed, clock and matched pairs to engineer's specification.
- Two-sided component placing.
- High density quad packs.
- High frequency.
- BGA
- EMI
- High voltage to UL or ECC specification.
- Analog and digital signal separation.
- Create a Project Library.
- PCI / Eurocard / PC104 / PCMCIA and PS/2
- Import: ASCII "Tango"® / "P-CAD"® / "PADS"® / "Orcad"® .DXF / .MAX files.
- Tools : ORCAD Layout, CADENCE Allegro, CADSTAR, PADS, PowerPCB, PROTEL

PC BOARD LAYOUT DELIVERABLES:

- PCB files.
- Gerber files RS274 format (embedded).
- Aperture list.
- Fully dimensioned drill file.
- Drill Drawing (Gerber, DXF, DWG).
- Assembly Drawing (Gerber, DXF, DWG).
- Electronic files by e-mail and CD disk.

SCHEMATIC CAPTURE CAPABILITIES:

- Copy existing schematics from any format or drawing.
- Create project sheets with net interconnects.
- Locate or build electrically correct and connectable components.
- Create a project library.
- Export in "DXF", "AutoCAD"®, or Adobe® Acrobat® "PDF" formats.
- Tools: ORCAD Capture, CADENCE Concept, CADSTAR, PADS, PowerLogic, PROTEL

SCHEMATIC DELIVERABLES:

- Schematic project and sheet files.
- NETLIST in preferred format.
- Bill of Materials.
- File by email and/or CD.

GERBER EDITING: Tools - CAM 350, Genesis for PCB manufacturing facilities.

MECHANICAL DESIGN: Tools - AutoCAD, CATIA 5 for enclosure and packaging design.

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