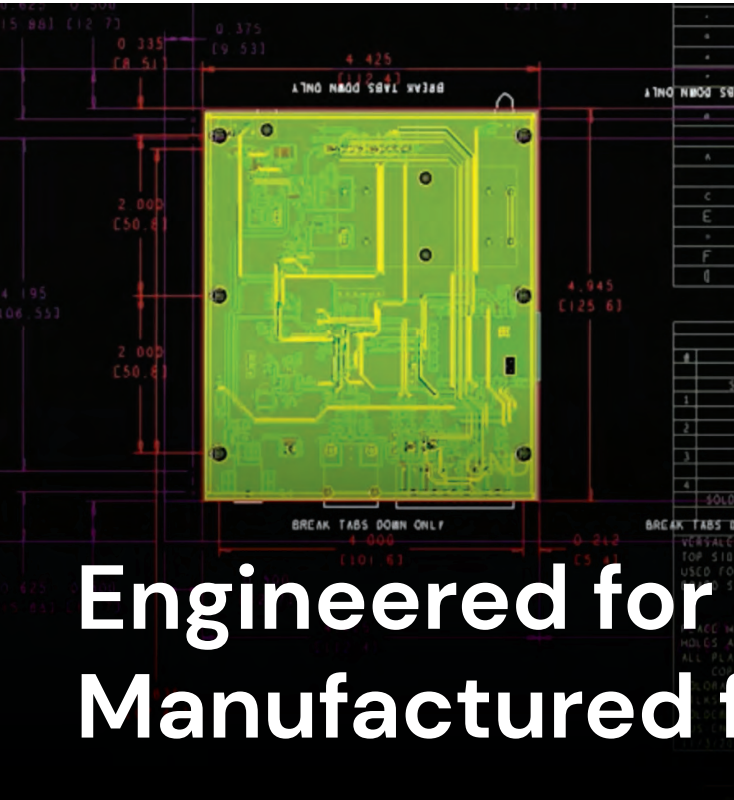


ProtoDesign, Inc.



Engineered for Safety, Manufactured for Quality

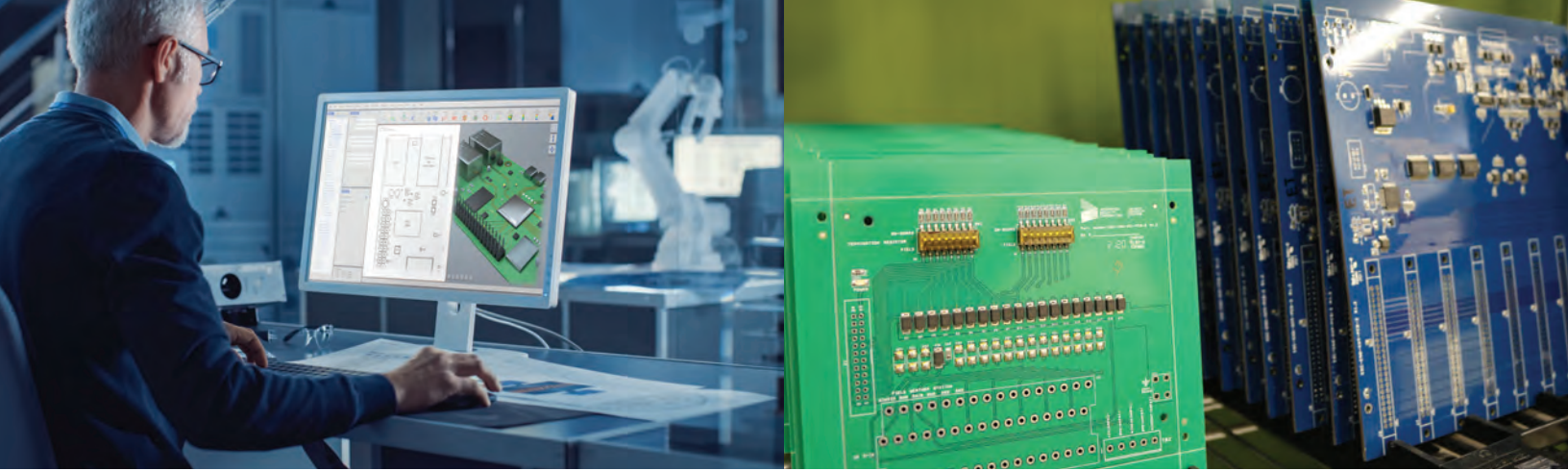
Electronic Design Services

Electronic Manufacturing Services

PDI Liquid Level Controls

Specialized IP





About Us

PDI is a U.S. based multi-faceted organization that has been serving companies of all sizes for over 30 years! We offer embedded electronic engineering Design and Manufacturing Services along with a full line of PDI's own conductance actuated Liquid Level Controls technology.

Engineering and manufacturing under one roof is a key to PDI's success. This seamless integration results in fast response times, quick time to market, lower costs, less downtime, and higher quality for clients. Our electronic engineering/manufacturing services range from concept to production which includes research/development, proof of concept, prototypes, product validation, custom test equipment, and supply chain management.

PDI's customers span a wide range of industries that requires PDI to be flexible in our design and manufacturing capabilities. We specialize in mission critical products including but not limited to safety rated controls, intrinsically safe designs for hazardous locations, non-patient contact medical controls and security applications.

Specialized IP

- IoT & Cloud Based Applications
- Safety Rated Limit Controls
- Intrinsically Safe Designs
- Non-Patient Medical Controls
- Battery Operated Wireless Mesh Systems
- Liquid Level/Steam Controls Technology
- Engineering/Manufacturing for Ordinary to Hazardous Locations

PDI Design/Manufacturing Projects

- Universal Mobile Tester – Steam Traps
- Cryogenic Freezer Controls
- UL353 Safety Rated Liquid Level Controls
- Boiler/Steam Controls
- UL913 Steam Trap Monitors
- UL913 Safety Relief Valve Monitors
- Wireless Smart Mesh Security Systems
- Wireless – WiSA, WiHART, LoRa, WiFi, Bluetooth, 900Mhz, 2.4Ghz
- Communications – Ethernet TCP/IP, BACnet, Modbus, RS485, USB, other

Industries & Markets

- Boiler/Steam Generation
- Restaurant Equipment
- Food Service Equipment
- Industrial/Automation
- Medical
- Aerospace
- Defense
- Petro-Chem
- Public-Safety
- RV/Marine
- Automotive
- Material Handling

Electronic Design Services (EDS)



Our Electrical Design Services include assigning an Engineering Program Manager to your account. We will work closely with you and your team to define your scope of work, key requirements and timeline. We'll then provide you with a quoted project plan that will include milestones and dates to bring your project from a concept through a design for manufacturability stage. If you need things expedited or timelines compressed, our experienced team can support you and are dedicated to your success!

- Research & Development
- Design for Manufacturing, Intrinsic Safety, Cost
- Electronic Schematic Design – Analog or Digital
- PCB Layout
- Proof of Concept, Prototypes, Production
- Embedded Software & Application Development
- Custom Electronic Packaging Design
- Submit/Manage Agency Approvals (ie; UL, FM, TUV, ATEX, IECEx, CE, etc.)
- Customized Test Equipment
- Program Management – All Projects and 3rd Party Test Labs/Validation

Electronic Manufacturing Services (EMS)

PDI manufacturing offers full turnkey services to our clients. Our state of the art production equipment and skilled work force support low to high volume manufacturing for single or dual sided SMT, thru-hole, mixed PCB assemblies, box builds, and final assemblies. Our MRP system supports lean manufacturing, inventory/supply chain management, Kan Ban capabilities, and handles customer supplied components to help control costs at every level.



- Low to High Volume Manufacturing
- Mixed PCB Assemblies – SMT, Thru-Hole, Final
- Single/Dual sided automated SMT
- Full 3D Automated Optical Inspection (AOI)
- Selective Solder, Wave Solder Capabilities
- Potting, Conformal Coating, Over-molding
- Custom Tooling/Fixtures/Test Equipment
- Box build and high level electrical assemblies
- Supply Chain, Inventory Management
- Support for Kanban, Customer Supplied Parts
- Safety certified manufacturing for products used in ordinary to hazardous locations
- ISO9001, ISO/IEC 80079-34, IPC-A-610, and RoHs Manufacturing

PDI Liquid Level Controls

PDI offers a broad, standard or customizable, line of highly reliable and UL approved conductance actuated liquid level controls. They are primarily designed and approved for use in boiler and steam generator applications but can also be used as cost effective solutions in a wide array of liquid level control and alarming applications.



- LW (Safety Low-Water Cutoff, Open)
- LW (Safety Low-Water Cutoff, Module)
- FW (Feed-Water Control, Open PCB)
- FW (Feed-Water Control, Module)
- FLW (Dual Function Control, Open PCB)
- FLLW (Tri-Function Control, Open PCB)



Project Portfolio

Visit www.teampdi.com to view our portfolio page and check out recent projects our team has designed and engineered.

Contact Us

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Business Hours

Monday–Friday: 8 AM to 5 PM EST