

Services Available

Total design service, from concept to production – Including feasibility studies, electronic hardware, firmware, software and mechanical design, PCB layout, test, product engineering, and manufacturing liaison.

Specializing in:

- **Circuit Design**
- **Printed Circuit Board Layout**
- **PLD Development/Programming (VHDL)**
- **Multi-Layer and Surface-Mount PC Boards.**

Microprocessor design- Ranging from simple controllers to large, multi-processor systems. Vast experience with single-chip microcontrollers.

Analog Designs and A/D conversion systems – video, high speed and low power designs

Applications:

- Telecommunications
- Video Processing
- Signal Conditioning
- Data Processing
- Data Acquisition Systems
- Control Systems
- Communications Products
- Remote Applications
- Consumer Products
- Site Monitoring/Control



Software tools used:

- **Orcad** - Layout, Capture, PSpice
- **Altera & Xilinx** - PLD FLGA development
- **Cadence** - Spectra Autorouter, Allegro, Concept HDL
- **Mentor Graphics** - Leonardo, ModelSim, Design Capture, Expedition PCB, FPGA Advantage
- **PADS** - PowerPCB, PowerLogic, etc.
- **Protel ALTIUM**

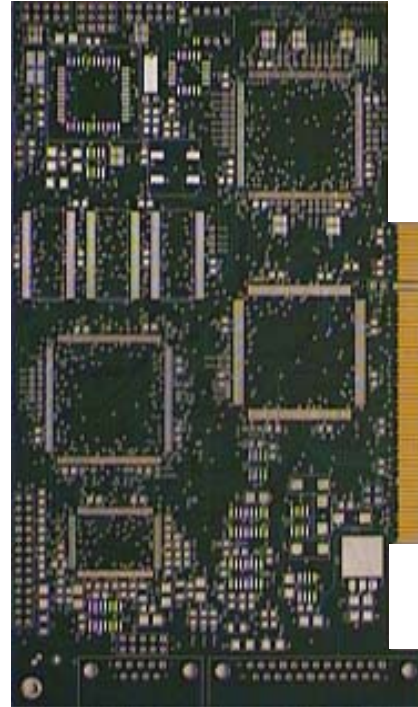
Specializing in:

Fast delivery — Prototypes and Circuit Boards

Circuit Design — Digital, Analog, Embedded uP

PCB Layout & Schematics — Orcad, Cadence, PADS, Protel, Mentor Graphics

PLD Development/Programming — Altera & Xilinx (using VHDL and Schematic entry)



Prime Design Consulting

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PRIME DESIGN CONSULTING

Electronic Product Engineering

Where Ideas Become Reality



Product Design
Board Design
PCB Layout
PLD Development
Embedded Systems

Electronic Engineering Services

Welcome to PDC, an innovator in applying electronic and computer technology to Electronic Products.



Through talent, experience, and hard work, we can help you overcome any design or manufacturing hurdle.

Our custom R & D solutions enable our customers to achieve fast time-to-market with technically advanced products.

PDC is a small dedicated Engineering firm specializing in Electronic Product Development. We are located in Northern New Jersey and serve the

world providing technical design and PC board layout services.

If you have an idea for an Electronic or a Computer Product, we can turn your idea into a working model and a successful product.

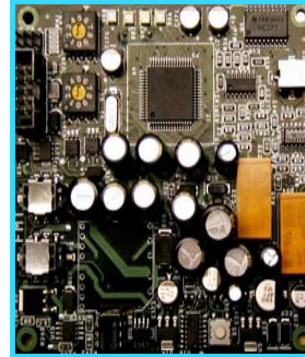
**OVER 20 YEARS OF SUCCESSFUL
ELECTRONIC DESIGN EXPERIENCE**

Product & Board Design

We offer a fast development cycle with quick time to market and can provide rapid low cost prototyping – **Hardware, Software, PCB, & Mechanical.**

Any or all of the following can be provided for your products:

- Concept Development and Feasibility Studies
- Competitive Analysis
- Product Testing
- Product Development
- Schematic Drafting
- Printed Circuit Layout
- Prototype Fabrication
- Custom Hardware & PCB
- Firmware design
- Reverse Engineering
- Manufacturing Liaison



**Offering Solid Engineering Experience
Specializing in:**

- Microprocessor Circuit-Pack Design
- Analog Design / Digital Design
- Signal Conversion
- Low Frequency as well as High Speed Designs
- Data Acquisition, Measurement & Control Systems
- Video Processing
- Fiber Optic Transmission Systems
- PC Board Layout
- PLD & FPGA design (VHDL & Schematic)
- Embedded Microprocessor Applications
- Firmware / Software
- Vast experience with single-chip microcontrollers

Printed Circuit Board Layout

No job is ever too small or too large. Whether it's a simple 2 layer board needed in two days, or a complicated odd-shaped board with many layers, we can

Going well beyond full service to provide "outstanding" levels of personalized service.

Always at the leading edge of technology

All work is Inventive, Creative, and Up-to-Date

The Smart Choice for all your Electronic & PCB Consulting needs

Engineering does not have to be complicated or expensive contact us today!

Recent Products & Projects

- Camcorder Dual Alarm system for stores
- Wireless Alarm Transceiver 900MHz, miniature
- DSP video compression board with PCI interface
- Voice-Over-IP Router Design
- Universal Wireless Radio Controller for Cell Towers
- Video Transmission over Twisted Cable
- Video A/D Conversion & Compression, 125MHz
- Fiber Optic Data Transmission system, 1GHz
- Low power measurement systems, A/D, D/A, I/O
- PC plug-in card – 140MHz Video Frame Grabber
- PCI plug-in card software drivers
- PCB Layout – from simple 2 layer to multi-layer surface mount both sides, over 1000 components, BGA footprints, odd shapes and sizes
- Data Acquisition system for monitoring railroad cars (vibration, shock, temperature), with data transmission via radio satellite link (patent #5,955,942)

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