

Design Specialties

- Low noise analog circuit design including high speed ADC.
- Circuit design including high speed (<1GHz), moderate power (<1KW), microprocessor and mixed signal. PC Board design software is Altium Designer 2008.
- FPGA based design (Altera, Quartus II) and real-time hardware DSP.
- Embedded software design. Linux based and Ethernet capable.
- Host Computer interfaces for manufacturing personnel.
- LabVIEW programming services (One Certified LabVIEW Associate Developer).
- Sheet metal enclosure and mechanical design.



Key Questions for Your Business

1. Would it be of value to measure your (process) or identify (parameters) using micro-sized samples within micro-seconds?
We have applied our electronic and mechanical design capabilities in many advanced product design/test situations.
2. Does your new product development require knowledge not available in-house?
We have developed and brought to market a number of new product designs and have capabilities that may be of use in your situation.
3. Are there specific obstacles blocking your path to market?
We and our customers have faced many difficulties and overcome them. However, financing, recessions, state-of-the-art limitations and market swings sometimes may require rapid development of the 'backup product'; we've been there, too.
4. Do you have longer range new product plans that may require innovation or additional expertise?
We have assisted literally hundreds of companies in developing new technology and reaching new markets.



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Helping to Assure the Success of Your Next New Product

We are experienced at helping manufacturers overcome the challenges of a new product launch. These can include revised product specifications, shortened time-to-market and continual cost reduction as volume is ramped up.

We have designed and built complete systems from initial specification through pre-production. This includes full Bill-of-Materials, drawings, process documentation and training.

Typically, our role in new product development continues long after the delivery of a working prototype.

On-Going Support

Product reliability is a critical element in any production process.

The Design & Test staff is always available to troubleshoot unexpected developments on your way to market.

We will work with you to implement your engineering changes and market driven modifications.

Defining Decision Criteria

We help integrate your market goals, in-house IP and financial goals to generate decision making criteria to define successful solutions.

A Sound Investment

Working with Design & Test Technology means complex projects can be initiated and completed without adding to the work load of your permanent staff.

Project costs can be more easily contained and controlled. At D&TT, we will use the appropriate technology to meet your unique needs.

Business Goal

Our latest mutual project was to design an Erbium:YAG Laser based instrument and prototype it for an off-shore client.

We are now working together to renew our focus on products and production that have a better chance of growing and staying in Michigan.

Experience

Successfully built a high tech instrumentation company serving a diverse range of needs.

Developed advanced test instrumentation that is used by Imation for both R&D and process control for all high end Magnetic Tape production.

Developed and brought to market seven medical devices that were FDA cleared (510(k)). We have 17 patents, many related to medical devices.

Conducted over 200 innovation producing Custom Seminars. These bring in selected groups of outside specialists who, with your key people, focus their knowledge and experience on your requirements.

Established both direct- and dealer-distribution channels for medical devices in the dental technology field.