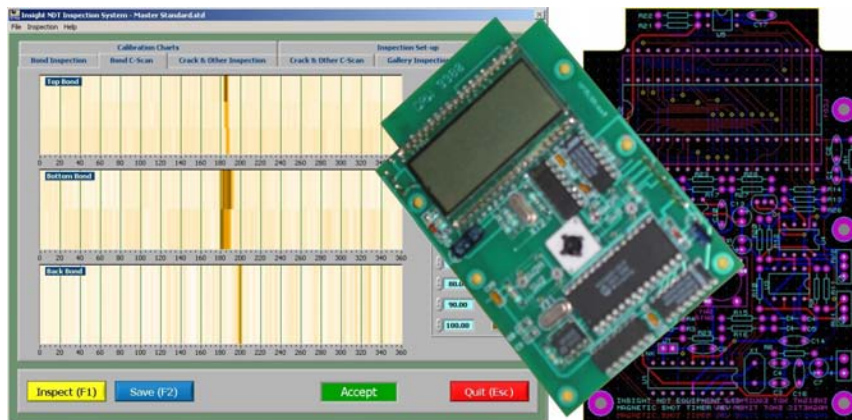


SOFTWARE & HARDWARE DESIGN SERVICES TO THE NDT INDUSTRY



Insight NDT Equipment Limited offers a range of engineering services, to the NDT industry. We are able to offer provide both software and hardware design consultancy services to other NDT companies. We have a multidiscipline engineering team who collectively has over 60 years experience in designing hardware and software solutions for Non Destructive Testing.

Insight NDT are able to offer a complete hardware and software design consultancy service. Whether you have a finalized specification or a raw concept we can help minimize you time to execution. If you are at the product planning stage it may be appropriate to consider the following;

- Feasibility study.
- Technology survey.
- Functional specification.

Hardware Development.

Ultrasonic instrumentation including ultrasonic flaw detectors.

Embedded microprocessor systems development.

Software Development.

Windows software development in the following languages;
C, C++, Forth, Delphi, Visual Basic and Labview.

Embedded software development in the following languages;
C and Forth.

Schematic Capture and PCB Layout.

Project Management.

Prototype assembly and test.



Telephone
+44 (0)1981 541122

Fax
+44 (0)1981 541133

Email
Sales@InsightNDT.com

Web Site
www.InsightNDT.com

**Insight NDT
Equipment Ltd**
The Old Cider Mill
Kings Thorn
Herefordshire
HR2 8AW

Directors
Mark Willcox BSc (Hons)
Jiang Li BSc (Hons)

VAT Registration No.
771 3060 50

Registration No.
4198815 England

Registered Office
21 St Owen Street, Hereford,
Herefordshire HR1 2JB

If the product specification is approaching finalization and you know what you want but don't have the resources to implement it then we can help with;

- Hardware development.
- Software development.
- Schematic Capture & PCB Layout.
- Project Management.
- Prototype assembly and test.

Hardware Development

Our Hardware engineers at Insight NDT have 20 years experience of hardware development. We have design skills in both digital and analogue design, and have used these skills to successfully in designing our own ultrasonic instrumentation.

Insight NDT can offer the following specialist hardware design skills;

- Ultrasonic instrumentation including ultrasonic flaw detectors.
- Embedded microprocessor systems development.
- Data acquisition hardware development.
- Power supply design.

Software Development

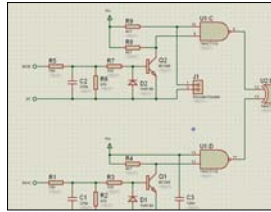
Our Software engineers at Insight NDT have 15 years experience of software development on various platforms. We have written a large number of NDT related applications for our own products. This means that our engineering team has a wealth of experience to help you develop your software product for the NDT market.

Insight NDT can offer the following specialist software design skills;

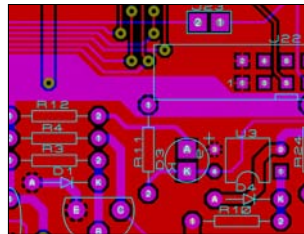
- Windows software development in the following languages; C, C++, Forth, Delphi, Visual Basic and Labview.
- Embedded software development in the following languages; C and Forth.
- Data acquisition software.
- TCP/IP interfacing of instrumentation, allowing remote monitoring of NDT systems.
- Motion control software
- Statistical Process Control (SPC) Software

Schematic Capture & PCB Layout

Circuit schematics are the starting point for board level design. A rigorous checking procedure ensures that the electrical, physical and ordering information associated with the devices in our component libraries is complete and correct. Completed schematics are then subjected to internal review and if appropriate a client review prior to PCB layout.



PCB layout is critical to achieving signal integrity, high operating frequencies and reducing emitted radiation. Minimising track lengths reduces signal cross talk and reflection. For this reason PCB component placement is guided or often actually done by the same person who did the electronic design, only this way can optimal placement be achieved. The



particular requirements of sensitive analogue circuits, DC-DC converters or split power planes also receive due care such as hand routing or current steering.

Project Management

Experience is nothing if we do not learn from it! Insight NDT project management is derived from our 15 years of experience within the company itself, and from our successfully completed projects. Insight NDT has had experience of small and large systems both domestic and international, and has been involved within the NDT industry as a systems manufacture for over 15 years.

Prototype Assembly and Test

Small batches of boards are quickly built in-house. Rework effort is available should changes be necessary. We have the ability to program the majority of programmable components and package variations. When larger production batches warrant it, we can introduce you to electronics assembly companies who are able to produce working boards or systems in large numbers.