

About Us

Established in August 1985, Thanehall specialises in the bespoke design, development and integration of hardware, software and provision of documentation for all types of test requirements. We provide solutions for various industries including major aerospace, telecommunications and defence companies throughout Europe.

The synergy of expertise among Thanehall personnel in the electronics, software and mechanical engineering disciplines, coupled with experience, modern ideas and a pragmatic approach, ensures that customers are provided with solutions designed, implemented and tested to the highest standards, all at an affordable price.

Comprehensive product life cycle coverage is important to us; we are experienced in all aspects ranging from requirement analysis through to product support.

We take great pride in the quality of all our work and are ISO 9001:2015 accredited.

Operating from our secure site in Norwich, we are able to provide both on and off-site support to customers as required.

Software

Programming Languages and Environments

The technical background and experience of our engineers combined with a flexible approach means that we can support most programming languages and environments including:-

- C, C++
- C / ATLAS / PAWS
- LabWindows / CVI
- LabVIEW
- Python
- TestStand
- Scripting

Applications

Thanehall has developed many bespoke applications encompassing different types of requirements such as:-

- Acceptance Test
- Factory Test
- Standard Serviceability Test and Diagnostics
- Electronic Stress Screening
- Functional Qualification
- Laboratory Test

Device Drivers

We are experienced in writing device drivers in various formats especially IVI and VISA for digital and analogue instrumentation including RF and microwave devices running on different interfaces:-

- GPIB
- LXI / VXI / PXI / PCI
- Serial, MIL-STD-1553, ARINC 429 / 629
- USB
- Ethernet

LabWindows/CVI™, LabVIEW™ and TestStand™ are trademarks of National Instruments Corporation
Thanehall Technical Services is a trading name of Thanehall Ltd
PAWS™ is a trademark of TYX Corporation



Hardware

Test Systems

The range of bespoke test systems we have developed to meet customer specific requirements includes 19" racks with internal and external test fixtures, bench-top, bed-of-nails, and portable test equipment.

We are always developing our universal products for AC distribution, signal switching and signal conditioning which we incorporate as appropriate in new systems or retail as standalone items.

Specialist System Knowledge

Many years of experience in test equipment has provided us with a detailed knowledge of systems including:-

- Radar (IFF, Surveillance and Tracking)
- Engine Management
- Avionics including Flight Control
- Data Management including Cryptographic capabilities
- Communications (GSM, GPRS and TETRA)
- GPS Synchronisation

Design

Specialist Thanehall engineers use the latest tools including CAD to layout and simulate the design.

Reviews are carried out throughout the process to ensure that all requirements are met and products are of the highest quality.

Construction and Integration

We manufacture, assemble and test a wide range of equipment both from our own designs or from designs that have been provided to us as part of a Build-to-Print contract.

All systems, subsystems and cables are assembled by hand, using wire wrap and crimping technologies as required.

Our experienced integration team provides on or off-site integration of hardware and software as required.

Documentation

Our engineering expertise combined with many years of experience makes us the ideal partner for the provision of all types of documentation.

Technical Writing

We work for a wide range of clientele encompassing both commercial and military specifications, our customers include manufacturers in the telecommunications, aerospace and defence industries.

We are experienced in producing a variety of technical documentation including requirements analyses and traceability; verification, validation and qualification reports; and user manuals.

Technical Publications

With over 30 years of experience in technical publications you can trust us to produce high quality technical manuals for:-

- Installation
- Operation
- Maintenance, Repair and Fault Diagnosis
- IPC / IPL

