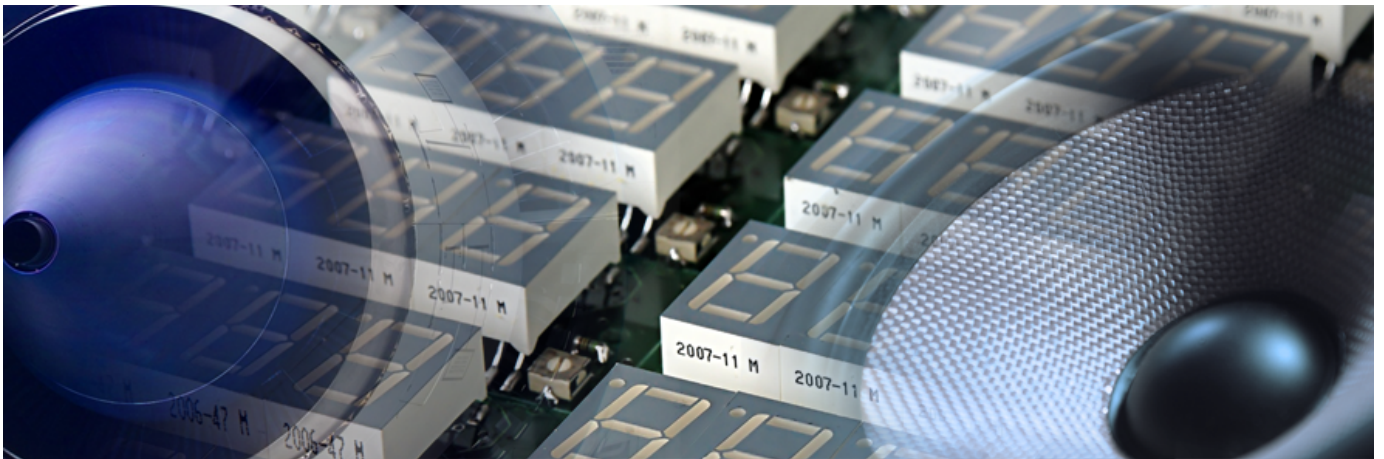


# Simplicity

A U T O M A T I O N I N T E L L I G E N C E

Simplicity AI provide software and hardware solutions for test, measurement, control and automation applications. From turn-key systems to on-site engineering resource, services can be tailored to suit customer needs.



# 1. Services

Simplicity AI provide a variety of software and hardware services to companies across many industries.

## 1.1. Consultancy

Simplicity AI engineers can be available on-site, to provide technical and logistical assistance with your project. Services include:

- Site Audit/Health Check
- Requirements Capture and Project Planning
- Software and Hardware Architecture
- Project Management
- Continuous Improvement

## 1.2. Software Development

Simplicity AI specialise in developing software for test, measurement, control and automation applications. Certified engineers utilise the latest development platforms such as LabVIEW and TestStand, best suited for building these demanding systems. In addition, Simplicity AI has extensive experience integrating with existing software systems and migrating legacy code to supportable platforms. Services include:

- Requirements Capture
- Specification Generation
- Software Development
- Software Systems Integration and Middleware
- Legacy Code Upgrades and Migration
- Code Reviews and Validation

## 1.3. Hardware Integration and Development

From turn-key manufacturing test systems to expandable research platforms, Simplicity AI design and build hardware solutions to meet a diverse range of needs. Wherever possible, commercially available off-the-shelf (COTS) components are sourced to ensure that all systems are easily supportable and upgradeable. In the case that off-the-shelf hardware cannot meet the needs of a particular application, Simplicity AI are able to design and build custom hardware to bridge the gap. Services include:

- Requirements Capture and System Specification
- System Design and Build
- Replacement of Obsolete Equipment
- Integration with bespoke/legacy hardware

## 1.4. Training

Simplicity AI deliver customised training packages tailored to customer needs. From low-level technical tools training for your engineers, through to operator level and management overviews - it is ensured that training is targeted for your specific audience. Technical training packages are designed to support your engineers with application and industry specific instruction.

## 1.5. Support

To compliment the software and hardware offerings, Simplicity AI also provide customised support options to ensure maximum operational effectiveness, and a seamless upgrade path for obsolescence management. Services include:

- On-site call-out
- System Health Check and Preventative Maintenance Schemes
- System Calibration
- Application Upgrades to remain in step with vendor supported tools.
- System Upgrades (Obsolescence Management)

## 2. Industries

Simplicity AI have a broad range of customers spread over many key industries. This gives an advantage in leveraging new cutting-edge technologies and ideas which traditionally may have been confined to particular fields.

### 2.1. Aerospace



Against a backdrop of tight regulations and accountability, the aerospace industry requires advanced software and hardware to meet demanding applications. In addition, the software and hardware architecture must be able to match product lifecycles that may exceed many decades. Simplicity AI have worked with customers to provide:

- Platform and architecture development, using industry

standard tools

- Test software development
- Software audit and validation documentation

### 2.2. Automotive



Fierce competition between vehicle manufacturers has ensured that product costs are kept to a bare minimum and that time-to-market for new products is short. Companies must ensure that innovative ideas can be tested at the design stage, with minimal expenditure on prototyping. Simplicity AI have worked with customers to provide:

- Hardware-in-the-loop (HIL) testing

- Production Test and Validation Systems

## 2.3. Consumer Electronics



New product innovation gives consumer electronics manufacturers the competitive edge, but presents some challenges for manufacturing. Processes and systems must be easily adaptable to allow rapid, inexpensive reconfiguration to meet the demands of new products. Simplicity AI have worked with customers to provide:

- Adapter-Reconfigurable Production Test and Validation

### Systems

- Production Quality and Production Monitoring systems
- Automated Optical Inspection Systems (AOI)

## 2.4. Defence



The defence industry demands products that can be stored and operated within the harshest of environments, yet will always perform within the tightest of specifications. Many of the testing and validation processes require costly and rapid destructive procedures, placing big demands on data acquisition and logging systems. Simplicity AI have worked with customers to overcome the huge challenges within the defence area, providing a variety of advanced solutions.

## 2.5. Research and Development

As product development and scientific research has become more sophisticated, there is a greater requirement to automate measurement and analysis operations. Organisations are



moving away from development of bespoke testing solutions for single projects, to reusable COTS hardware and software tools, which are integrated to form a tailored system. Simplicity AI have worked with customers to provide:

- Integrated realtime data logging and live analysis systems
- Control and monitoring of prototype test rigs
- Legacy test equipment automation upgrades

## 2.6. Medical Devices



Due to the potential risks to patients, design and manufacture of medical devices is highly regulated. Simplicity AI have closely worked with their clients to develop automated testing solutions for validating designs of medical equipment and testing production units.



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