



Rolls-Royce

The adi Group, through several of its businesses, has been working with Rolls Royce - Controls and Data Services (CDS) for nearly 10 years. CDS produces aircraft engine control systems and has been involved in some of the most important moments in flight. Today, as part of the Rolls-Royce Group, RR-CDS specialises in high-integrity, harsh environment control systems and cutting edge asset optimisation products and services.

"The adi Group provided a very efficient, cost effective solution to our ongoing rig development needs. They also provide an excellent maintenance service, responding very quickly to any demands placed on them, ensuring continual seamless production. They are a reliable supplier and trusted member of our team. Being someone we can always count on, ensures that we can offer a quality risk management service to our aircraft customers."

adi Projects provides:

- Project scope development and optimisation, program planning, cost control and budget management
- Process and engineering development, including engineering design and specifications
- Health and safety management, both before and during project delivery

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The Opportunity

In association with one of our strategic partners, the adi Group helped create and upgrade state of the art aircraft engine test rigs. Our track record and successful business relationship with Rolls Royce - CDS spans over many years and on numerous projects.

The test rigs are predominately to test engine and aircraft parts for civil and military aircraft. The rigs allow the Rolls Royce - CDS operator to test the effectiveness of the engine's pumps, actuators, accelerators and seals, prior to its installation on the aircraft. The rigs simulate the control systems in the engine to see how it performs and reacts to certain tests. Approximately 30% of our work with Rolls Royce - CDS relates to new rigs and 70% is upgrading existing rigs.

The Solution

Alongside our strategic partner, we work together to design, build and pre-operationally test these individual rigs at the adi Group facility in Kings Norton, Birmingham. The work involves several adi disciplines / businesses – adi Mechanical; adi Electrical and adi Automation. The total package of work is managed and coordinated by adi Projects.

adi Mechanical is tasked with building the steel framework and incorporating any specific mechanical design improvements; adi Electrical creates and installs the electrical systems, including the wiring looms and adi Automation installs the control systems, having designed the wiring circuits. Our strategic partner supports the hydraulic pressure and fuel systems, software development and critical test validation processes

The Benefits

Long standing strategic partnerships where our in-house multi-disciplined specialist skill sets complement those of our strategic partner to strengthen and improve the level of turnkey service and capability to Rolls Royce - CDS

- We build, support and manage the introduction of the cost effective automation of the test rig facility, through our project management capabilities. Continuous improvement advantages for Rolls Royce - CDS
- Managed by adi Projects, we ensure efficient and closely coordinated works from start to completion
- The off site build and test at adi allows Rolls Royce - CDS to keep downtime and changeover period to an absolute minimum which is a key factor in any production and operationally critical business