

ENGINEERING SOLUTIONS

Quadrant Simulation Systems has more than 25 years' experience serving its Commercial and Military worldwide customer base with dedicated Design, Engineering and Manufacturing teams.

SYSTEMS, SOFTWARE, ELECTRICAL AND MECHANICAL DESIGN

Quadrant provides a comprehensive range of engineering capabilities including systems, mechanical, electrical and software engineering.

Our engineering teams have completed numerous projects for OEMs and simulator operators catering for in-house and on-site installation projects as well as providing licensed designs to customers around the world. Drawing on the experience of these projects Quadrant has developed a standalone interface unit, Quadrant NUQLEUS™ capable of integrating new products with legacy host computer systems.

By utilising proven software designs, Quadrant NUQLEUS enables the integration of new equipment at a lower cost and with less downtime than traditional methodologies.

MANUFACTURING AND INTEGRATION

Mechanical and Electrical installations are professionally implemented by our experienced manufacturing teams.

Our manufacturing teams participate in Quadrant update projects and are also available to support OEMs with their programmes and factory production.

On a Quadrant update project, our engineers produce an engineering design covering all aspects of the update including software & electrical integration as well as mechanical packaging of the systems being incorporated into the simulator. Wherever possible Quadrant will aim to integrate the systems in a limited downtime around the simulator's training schedule.



PROFESSIONAL PRODUCT SOLUTIONS

- ▶ Systems Integrations
 - UPRT Updates
 - Visual Image Generator
 - Motion System
 - Control Loading System
- ▶ Technology Updates
 - Quadrant Re-Host Solutions
 - IOS Replacement
 - Quadrant NUQLEUS™
- ▶ System Design and Modelling
 - Avionics Updates (including FMS, EGPWS, TCAS, Weather Radar & GPS)
 - RNP/VNAV Capability
 - Aerodynamic & Engine Model Updates
 - AFM UPRT Extended Envelope
 - AAR Training Capability

(Continued overleaf)

PROFESSIONAL PRODUCT SOLUTIONS

- ▶ Mechanical Design
 - Visual System Projector Updates
 - Structure Modifications for Larger Format Visual Systems
 - Access Ramp and Interface Structures
 - High Level Walkways and Safety Barriers
 - Internal re-design and re-build to Facilitate Additional Crew Positions and New Capabilities
- ▶ Electrical Design
 - Cable Assemblies
 - Patch Panels
 - Power Conversions
- ▶ Complex Programmes
 - Flight Deck Upgrades
 - Flight Deck Reconfigurations
- ▶ Aviation Authority Qualification
 - Qualification Test Guide Updates
 - Qualification Support or Pre-Qualification Health Checks
 - Defect Investigations & Resolution
- ▶ Manufacturing Services
 - Simulator Relocations
 - Simulator Installations
 - Visual Installations
 - Mylar Mirror Reskins
 - Manufacturing Support
 - Maintenance Activities

QUICK FACTS

- ▶ Independent – Quadrant Simulation Systems has experience in most types of legacy technologies and simulators
- ▶ Direct Access – you can speak directly with the engineering team
- ▶ Experienced Core Team – a core team of experienced and multidisciplinary engineers allows us to work from a competitive cost base while enabling us to be adaptable as technology or contract size dictates
- ▶ Customised Solutions – we approach every project/program with an open mind to implement solutions aligned to your technical and budgetary requirements
- ▶ Innovative Products – Over 25 years we have developed approaches and innovative products, including our patented Quadrant NUOLEUS™ universal integration interface to simplify and update processes

ABOUT QUADRANT SIMULATION SYSTEMS

Quadrant Simulation Systems operates Worldwide from offices in the UK and USA, delivering a comprehensive range of solutions tailored to the specific needs of the Civil Aviation, Defence and Security markets. Quadrant Simulation Systems Limited is part of Quadrant Group operating alongside other Group companies (Quadrant Simulation Systems Inc, Micro Nav, Global ATS and Quest Flight Training).

FOR MORE INFORMATION CONTACT

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