BORN TO ENGINEER

ENGINEERING SERVICES

Aero engine controller unit modification support

Customer

A leading public sector undertaking organization, the company has 19 production units and 9 research and design centers in 7 locations in India. The company has an impressive product track record - 12 types of aircraft manufactured with in-house R & D and 14 types produced under license.

Requirements

- The existing digital engine control unit needed performance improvement
- QuEST supported the redesign of Digital Engine Control Unit
- The code was validated as per RTCA-DO-178B Level A requirements

QuEST approach

- Verification of control algorithm from existing code in assembly language
- Code development in C
- Independent Verification and Validation against DO-178B Level-A requirements
- Hardware-Software Integration testing

Results

- Improved time to market and cost savings up to 25%

About QuEST

QuEST is a leading provider of outsourced engineering services and manufacturing. The company helps customers in the aerospace, power generation, oil & gas, civil structures, industrial products, and transportation verticals to cut product development costs, shorten lead times, extend capacity and maximize engineering resources availability by providing support across the complete product life cycle from design and modeling through analysis, prototyping, automation, data documentation, instrumentation and controls, embedded systems development, manufacturing support, vendor management, and in-house precision machining. Through our Global Product Development framework and our on-site/off-shore/on-shoremodels, we leverage our local presence and global reach to support globalization initiatives for our customers. QuEST has delivery centers in India, USA, Italy, Japan and footprints in UK, Germany, France, Spain and China. For more information, please visit www.quest-global.com.