

CYIENT

AVIONICS ENGINEERING SOLUTIONS FOR THE GLOBAL AEROSPACE AND DEFENSE INDUSTRY

How we work with our clients to help overcome challenges
for a better tomorrow



Overview

Global Partnerships in Avionics Development Engineering

The aerospace industry needs a globalized approach to respond to the dynamic and cyclical nature of demand. At Cyient, we leverage a global collaborative engineering approach to help aerospace and avionics companies innovate, build, and sustain competitive advantage.

Expertise

Avionics at Cyient

Leveraging our domain expertise in avionics, we offer solutions for highly advanced avionics systems. With a pool of talented avionics experts on board, we provide clients with best-in-class, integrated solutions, mission-critical software, hardware, and firmware for both civil and military platforms. Moreover, our solutions extend across communication systems, navigation systems, electronic flight management systems, cabin intercommunication systems, mission computers etc. and incorporate all the electronic, electromechanical systems, and subsystems (hardware and software) installed in an aircraft.

Value Proposition

- Reduce total cost of engineering
- Meet offset obligations
- Local ownership
- Flexible capacity
- Customized business models
- Domain and process expertise
- Shorten time-to-market

KEY HIGHLIGHTS

Mature program-level engagements with aircraft manufacturers and OEMs

450+ resources dedicated to DO178B and DO254 projects

3 million hours delivered

8 years of experience working on avionics SDLC and HDLC projects

Specialized in end-to-end capability managing complete SDLC—starting from DAL level A and HDLC

Extensive experience including new developments such as model-based engineering

Vast knowledge and license pool available of standard and special tools for software development, hardware development, and life cycle support

Certifications: ISO 9001:2008, ISO 27001, AS9100 C

Managing and executing civil and military multi-year work packages



Service Offerings

System-Level Experience

- Flight management system
- Cockpit display and navigation
- Communication system
- Cabin system and in-flight entertainment
- Landing system
- Simulation system – cockpit
- Load master control systems

Service Offerings by Domain

- Software engineering
- Hardware engineering
- Systems integration
- Testing services
- Flight trial support
- Obsolescence management
- Safety engineering and consulting

Horizontal Service Offerings

End-to-End LRU Development

- Design and development through qualification testing of embedded hardware, software, and mechanical packaging
- Compliant with RTCA/DO178B/254/160
- Mature program management

Verification and Validation

- Review, analysis, testing and documentation as per DO178B/C, DO254
- Qualification support – MIL STD, DO160F

Value-Added Services

- Communication protocols – design and development
- Reverse engineering
- Code migration, optimization, and porting
- Hardware prototyping and modeling
- Safety and reliability analysis
- Obsolescence management
- Test equipment (ATE) development

About Cyient

Cyient is a global provider of engineering, manufacturing, data analytics, networks and operations solutions. We collaborate with our clients to achieve more and shape a better tomorrow.

With decades of experience, Cyient is well positioned to solve problems. Our solutions include product development and life cycle support, process and network engineering, and data transformation and analytics. We provide expertise in the aerospace, consumer, energy, medical, oil and gas, mining, heavy equipment, semiconductor, rail transportation, telecom and utilities industries.

Strong capabilities combined with a network of more than 13,100 associates across 38 global locations enable us to deliver measurable and substantial benefits to major organizations worldwide.

For more information about Cyient, visit our website.

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