INTELLIGENT &
CYBER-PROTECTED
SAFETY-CRITICAL
SYSTEMS

CS GROUP

YOU OWN THE SYSTEM,
WE MAKE YOUR SOFTWARE SAFE

Markets that we serve

Our customers design systems and subsystems that include safety and mission-critical embedded software such as engine control, avionics and more. Our customers are primarily Tier 1 and Tier 2 suppliers of the aeronautics, defence, space, automotive, and rail industries

In support to our customers

CS is a trusted turn-key partner for major Aerospace systems makers. Our teams are changing the way critical systems are certified using advanced and cost-effective V&V techniques.

Aerospace systems development expertise
> Systems Engineering (ARP-4754A/4761)
> Software development and testing (DO-178C)
> Model-based design (DO-331) and Formal Methods (DO-333)
> DevOps & Tool Qualification (DO-330)
> Cybersecurity (DO-326A)
> Gap Analysis and Training (DO-178C and supplements)

Certification office and independent Quality department
> DAA/DER liaison to ensure certification with regulatory authorities
> Independent ISO9001 & AS9100D Quality Management System

Significant and on-demand engineering capabilities
> On-site consultants and experts,
> Remote turn-key program delivery with
    -150 Engineers in North America
    -200 Offshore Engineers in Romania and India
> Flexible business models to meet your program requirements
    -Full SDLC Management under Firm-Fixed Price
    -Unit Price or Not-To-Exceed Pricing
    -Time and Material

Products Overview

Test Benches

> Hardware-in-the-loop

Proprietary designs built for high-precision certification testing. Open architecture easily interfaces with existing environments.

> Software-in-the-loop

Cost-saving certification approach based on virtual platforms.

Automated Testing Environments

> ATLAS

Based on the latest NLP techniques, this tool analyses textual requirements and auto-generates tests scripts, saving up to 30% of the verification costs.

Continuous Integration and Delivery

> LEAFS

Fully automated tool-chain, easily deployable for new and legacy software development environments.

After-market & MRO

> Embedded software loader

Cyber-protected solution for aircraft systems allowing over the air or wired reprogramming.

WHY CONSIDER CS ?

We have 20 years of experience with the highest and most demanding level of critical systems in the aerospace industry. We have worked with jet engine controls, completed DO-178C DAL A certification, provided services to some of the largest OEMs in North America, and contributed to many other critical systems in aerospace, defence, automotive, rail, and industrial markets.

CS GROUP

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