

INTELLIGENT &
CYBER-PROTECTED
SAFETY-CRITICAL
SYSTEMS







# **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 autogenerates 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

> Embedded software flashing

Cyber-protected solution allowing over-the-air reprogramming.

# YOU OWN THE SYSTEM, WE MAKE YOUR SOFTWARE SAFE

## Markets that we serve

Our customers design systems and subsystems that include safety-critical embedded software for ADAS and autonomous driving. Our customers are OEMs, Tier 1 and Tier 2 suppliers of the automotive, aerospace, defence and rail industries.

# In support to our customers

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

### Automotive systems development expertise

- > ISO26262 functional safety planning and concept
- > Item definition, HARA and Safety goals, SEooC
- > ISO26262 Training and Gap Analysis
- > Automotive Systems Engineering
- > Model Based Design and Formal Methods
- > Cybersecurity (J3061 -> SAE 21434)

## **Certification office and independent Quality department**

- > ISO26262 functional safety experts
- > Independent ISO9001 & AS9100D Quality Management System

### A significant and on demand engineering capabilities

- > On-site consultants and experts, or
- > Remote turnkey 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

WHY CONSIDER CS?

We have 20 years of experience with the highest and most demanding level of critical systems in the aerospace industry (DO-178C DAL A certification). For 5 years, we have been successfully leveraging our core safety critical expertise to the unique challenges of ADAS and autonomous driving. We are delivering the highest level of services to largest Automotive OEMs and system makers.



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