

INTELLIGENT &  
CYBER-PROTECTED  
SAFETY-CRITICAL  
SYSTEMS



DEFENCE

## YOU OWN THE SYSTEM, WE MAKE YOUR SOFTWARE SAFE

### Markets that we serve

Our customers design systems and subsystems that include mission and safety-critical embedded software such as jet engine controls, avionics, C2 and autonomous driving systems. Our customers are prime contractors, Tier 1 or Tier 2 suppliers of the defence, automotive, aerospace and rail industries.

### In support to our customers

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

#### Critical systems development expertise

- > Systems Engineering
- > Critical software development and testing (DO-178C & ISO 26262)
- > Model Based Design and Formal Methods
- > DevOps and Tool Qualification
- > Cybersecurity (DO-326A & SAE 21434)

#### 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

#### Trusted Canadian SME

- > Control goods & ITAR premises
- > NATO & Canadian Security Clearance

### 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

##### > Embedded software flashing

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

## WHY CONSIDER CS ?

We have 20 years of experience with the highest and most demanding level of critical systems such as jet engine controls in the Aerospace industry (DO-178C DAL A) or ADAS systems in the Automotive industry (ISO 26262). We are investing on R&D programs in collaboration with research institutes to define the next solution to integrate and test increasingly complex systems together.



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