

CTAG ELECTRONICS SYSTEM VALIDATION

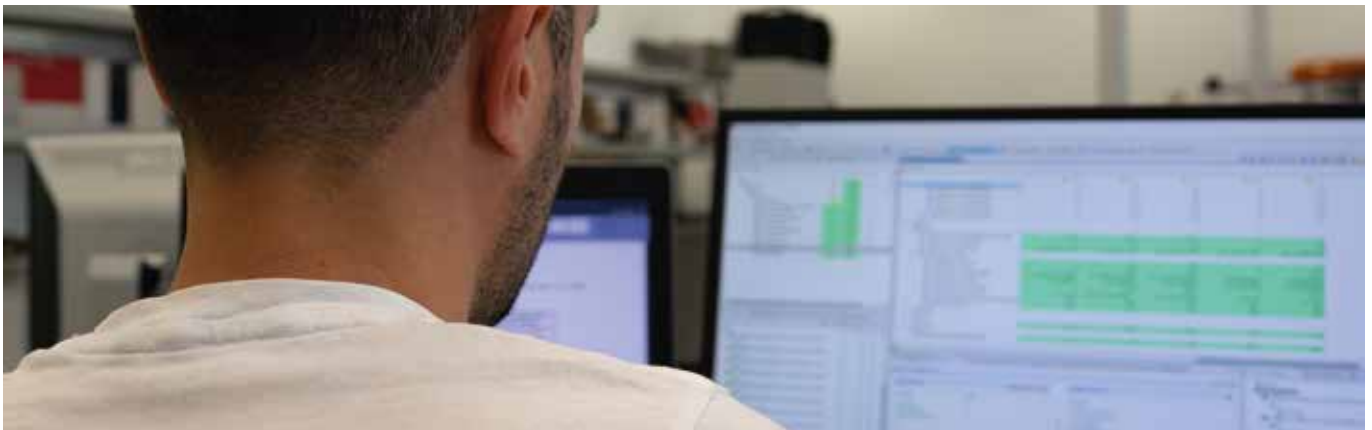
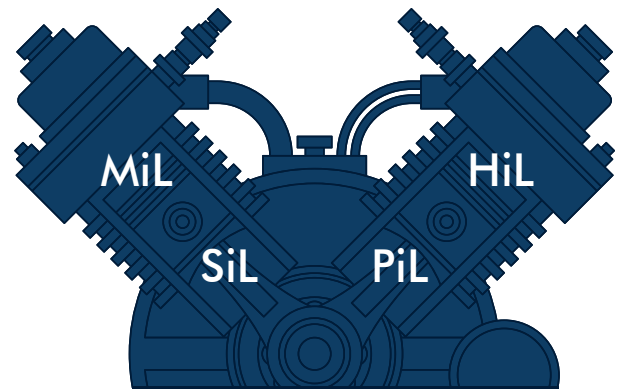
**CUSTOMER EXPERIENCE – MIL, SIL & HiL TEST BENCHES
and SW VERIFICATION Process**

SOFTWARE TESTS

Capabilities

Full coverage for right side of V-model (unit, integration and qualification) following **ASPICE, ISO 26262, ISO 29119 and 25119** depending on project requirement, including following activities:

- ▶ Requirements analysis
- ▶ Test plan preparation
- ▶ Test design and specification
- ▶ Implementation & Execution
- ▶ Continuous integration



Tools

- ▶ Vector Cast
- ▶ Tessa
- ▶ LDRA
- ▶ Git
- ▶ Jenkins
- ▶ Polyspace
- ▶ QAC

VectorCAST



LDRA

git



PolySpace
TECHNOLOGIES

JIRA



MiL AND SiL TESTING

Capabilities

- ▶ Creation of Scenarios (Highways, Urban, Rural, Parkings, V2X)
- ▶ Calibration of models
- ▶ Execution and reporting
- ▶ Development of SiL and MiL Test benches for algorithms and ADAS functions
- ▶ Automatization of test

Tools & Facilities

- ▶ CarMaker
- ▶ SCANeR
- ▶ Matlab & Simulink
- ▶ ADTF
- ▶ Vector Tools (Canoe, Canalyzer)



HiL TESTING

Capabilities

- ▶ Development of HiL Test Benches
- ▶ Automatization of test
- ▶ Test execution
- ▶ Execution and reporting
- ▶ Environment Simulation for scenarios like: Highways, Urban, Rural, Parkings, V2X

Tools

- ▶ National Instruments Suite (HW/SW)
- ▶ Vector Tools (Canoe, Canalyzer,...)
- ▶ Matlab & Simulink
- ▶ ADTF
- ▶ SEA

