

ABOUT ICTERRA

ICterra is a global software engineering company. We combine our software development experience with technology expertise and proven methodologies to provide innovative solutions to our customers across multiple industries. With 180+ software professionals, we have been building strategic partnerships with the world's top IT and defence companies, providing software development and test services.

AVIONICS SOFTWARE

ICterra is competent in complex, safety-critical software development activities. These fully support the RTCA DO-178C standard as a guideline in avionic systems.

- Model-based Development
- Design and code development according to software DAL Level constraints
- GHS Integrity 178 is used as the real-time operating system.
- Mil-STD 1553 and ARINC 429 data bus
- UDP, TCP and RS- 422 protocols
- IEEE-754 (IEEE Standard for FloatingPoint Arithmetic)
- Complex hardware Tests: experience in bootloader development and test software developments such as RC test, Interrupt check, NVRAM checksum test, PLL test, DDR RAM test, DSP test, Flash test





INDEPENDENT VERIFICATION & VALIDATION

ICterra provides Software Independent Verification & Validation, and Coverage Analysis services to ensure the highest level of quality for safety-critical projects. We plan Verification & Validation activities in parallel with a corresponding phase of development in accordance with V-model.

Software Independent Verification & Validation, and Coverage Analysis services are provided in accordance with RTCA DO-178C standard.

Cover All Code

All Requirements “Sunny Day” Conditions

Robustness Tests Normal Range Tests

“Rainy Day” Conditions **Functional Test**

Structural Coverage Analysis

REFERENCES

aselsan

Avionic Software Development & Testing

aselsan

System Integration Test



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