



# Who we are

| Part of ULMA Group, one of the largest business groups in northern Spain.

| Team: 20 engineers

Located in Oñati, Gipuzkoa – Northern Spain







#### Who we are

- We offer specialised consulting, design, development & testing services
- Along the whole custom embedded product lifecycle
- | Software, Hardware and Programmable Logic
- Focused on Safety-and Mission-Critical applications



#### What we do

#### Life cycle activities

- We participate in the safety certification process
- | Tools choice and combination keeping traceability through the whole process
- | Verification & Validation activities and their evidences



#### Activities and tools

- | Test and quality management. IBM: Rational Quality Manager
- Standards compliance. EN 50128, IEC 60730...
- | Model-Based Testing. IBM: Rhapsody TestConductor
- User Interface Testing. Froglogic: Squish. IBM: Rational Functional Tester
- Protocol testing. IBM: SDL & TTCN Suite
- Static code checking. Gimpel: PC-lint
- System verification and validation. National Instruments: TestStand
- | Hardware-in-the-Loop. National Instruments: VeriStand. | MathWorks: Simulink



## Topics and trends

- Integral Safety and Security concept
- Adapting legacy code to new standards requirements.

  Refactoring code and test to comply with new requirements
- Security standards, tools and processes
- | Integration testing for heterogeneous applications: embedded, PLC, desktop / COTS and proprietary code
- | Programmable Logic Testing
- Tool interoperability and integration
- | Automation: generation & execution
- | Continuous Integration
- | Model-Based Testing
- | Product Line Testing



## Contact us

#### **ULMA Embedded Solutions S. Coop**

Garagaltza auzoa 51 – PK 77

20560 (Oñati) – Gipuzkoa – SPAIN

+34 943 250 300

info@ulmaembedded.com

www.ulmaembedded.com



@ULMA Embedded



