KETs 2026 - EU Brokerage Event on Key Enabling Technologies

AVNIR Engineering

LRQA CERTIFIED ISO 9001 UKAS MANAGEMENT SYSTEMS 0001

Field of expertise: Mobility, Aerospace, Defence

Field of expertise: Mechanics & Vibration

ElectroMagnetic Compatibility (EMC)

Addressed topic(s): When integration in a mobility system is required, e.g.:

HORIZON-CL5-2027-03-D5-08: Sustainable aircraft circular design and additive manufacturing, towards a climate neutral aviation

HORIZON-CL5-2027-03-D5-18: Enhanced electric operation and battery durability

HORIZON-CL5-2027-03-D5-05: Higher Voltage, Megawatt Charging System compatible, modular powertrain for Heavy Duty Vehicles

HORIZON-CL5-2026-06-Two-Stage-D5-10: Disruptive Technologies and Innovative Concepts for Energy Saving Onboard of long-distance ships

Thematic Workshops

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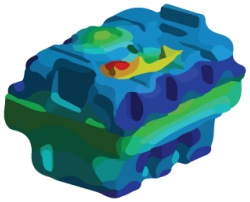
AVNIR Engineering

LRQA CERTIFIED ISO 9001 UKAS MANAGEMENT SYSTEMS 0001

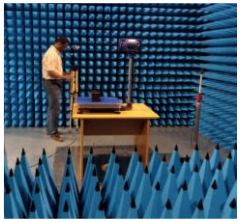
- SME Created in 2009
- 45 employees
- Turnover of 4.8M€ in 2024
- ISO-9001:2015 certification

Mechanics & Vibration

- Numerical simulations
- Static & Dynamic analyses
- Mechanical stress & Fatigue
- Design of damping systems
- Multiaxial vibration tests



Mechanical stress of battery packaging



EMC test campaign

ElectroMagnetic Compatibility (EMC)

- Numerical simulations
- Design and protection recommendations
- EMC specifications (UE standards)
- Identification of EM threats
- Study of coupling, shielding, continuity…

Experience in R&D Project

- 10 completed national-funded R&D projects, half as coordinator
- With SMEs, Large companies, Universities
- H2020 Project : FAST-SMART on energy harvesting systems, Workpackage leader

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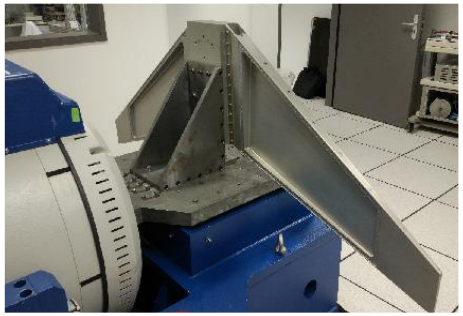
Our project expertise

What we can offer

- Enhance the safety, durability and integrability of your embedded equipment
  - Studies of the dynamic behavior of structures and equipment
  - Optimize the design of your systems according to environmental constraints (mechanical, vibration, temperature, etc.)
  - Identify and prevent electromagnetic interference issues between equipment
  - Vibration tests (single-axis et multi-axis)
  - Knowledge of standards
- Provide project management
  - Act as work package leader
  - Manage deliverables and reports



Design and vibration test – prototype of wing shape

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Contact details

Contact person	**Florian DUPLA**
Organisation	AVNIR Engineering
Country	France
E-mail	f.dupla@avnir.fr