

Who We are

- Founded in 2018
- Offices in Stavanger and Rep. in Paris
- 1 Sister Company in Tunis for Offshoring and MEA clients
- → 25+ Clients in 4 Continents

We harness the power Disciplined of Multidisciplinary Expertise and Processoriented Systems Engineering to support customers in their journey of engineering complex products and services for harsh and complex environments.

→We believe that knowledge should be shared across industries from Space to Downhole and that's why we are trusted by:















Services & Expertise

Our expertise covers the following technical fields:

- Mechatronics for harsh and extreme environments (Extreme temperatures, Shocks & Vibrations, Pressure, Vacuum, Radiation)
- Systems Engineering (requirements analysis, architecture, lifecycle, process definition and implementation ...)
- * Design Thinking, System Analysis, Simulation ...

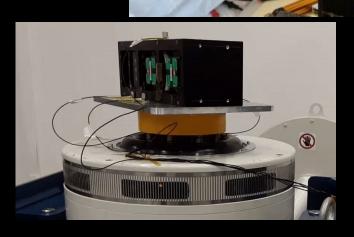
- * Complex Systems Engineering & Prototyping (Electronics, Power, FW/SW, Batteries, High Voltage, Mechatronics, V&V ...)
- Complex Systems Industrialization & Ruggedization (Space, Downhole Oil&Gas, Aerospace)
- Project Management Strategy (Startups)

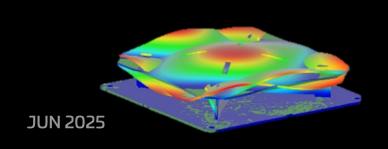




Space

- Mission Design & Systems Engineering
- →Bus & Platform Design & Improvement
- Payload Design
- Ruggedization
- → Testing & Qualification













Project Sample

- → loT Nanosatellite
 - * Advisory on mission planning & project management
 - Knowledge transfer to launch first satellite / space project in a client's country
 - Design Review, Improvement, Integration, Qualification and Deployment (Payloads & FM)
- → 3U **N**anosatellite Bus Improvement
 - Review of Mechanical and Electrical Design
 - RF and Mechanical improvements for seamless testing and integration
 - * Acceptance Test process definition and implementation



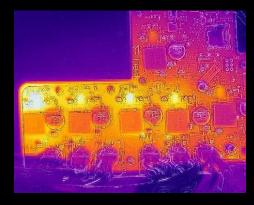


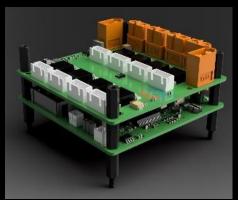
Confidential Information

Unmanned – UAV/UGV/USV

- Mission Design & Systems Engineering
- Platform Design & Improvement
- Power Unit, Controller Unit Design
- Payload Integration & Design
- Ruggedization
- → Testing & Qualification







Project Sample

- Firefighting UGV
 - * Advisory on technology for electronics & payloads
 - Battery Technology advisory and implementation
 - Ruggedization



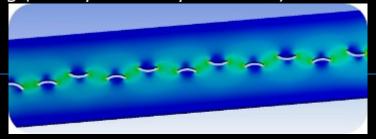
- * Electrical design for Power Distribution and Environmental Monitoring Boards
- * Power Lighting Design & Implementation
- Integration and Manufacturing Advisory







High Voltage PCBA Design, simulation & Testing (30kV per PCB up to 175°C)



Systems Engineering & Project Management

Electronics & Mechatronics Rugged Design

→ Analogue Measurement Front End Design

→Testing & Qualification

→ Field & Operations Support

Digital & Analog & Power Electronics design for harsh environments





Roll, Hot Roll, S&V, HALT testing and ruggedization of designs & systems

Other Industries

- Medical
 - * Heavy Duty, wide operating conditions and user-friendly diagnostic research device deployed in 7 COVID centers with 2500+ patients and 10k+ tests done in 18 months
 - * Medical Research protocol co-development and implementation
 - * Manufacturing, Operation Support and Maintenance
- Lithium Battery Energy Storage Systems
 - Mechanical, Electronics and Electrical Design
 - Mass volume production
 - Ruggedization and Fire suppression systems designs



Main Partners & their Services

- To strengthen our offering, we provide the following services with great partners that we trust and believe that they complement our expertise with their own at the best quality of services:
 - * ARMECH SOLUTIONS : UK based technology consultancy firm offering harsh environment mechanical design (FEA, CFD, CAD, hydraulic) and prototyping, with focus on O&G.
 - *HUGG: Norway based technology consultancy firm offering extensive mechanical design expertise (Product Development, FEA, CFD, CAD)
 - * PaleBlue: Stavanger based XR/VR/Screen based simulation & training solutions across industries. Leading XR/VR provider for NASA and ESA
 - * DENPAFLUX: Munich based EMC/EMI experts with AI powered simulation and evaluation on PCBA and Assemblies and large Systems



