

## Company Profile

**ARPEDON P.C.** is an established Greek engineering and manufacturing company (est. 2001) specializing in large scale electromechanical installation, the development of industrial application solutions and the manufacture of measurement instruments.

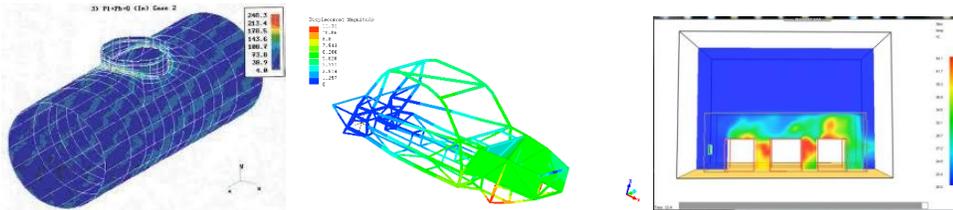
Our core strength lies in taking conceptual designs and rapidly industrializing them into certified, field-deployable systems using in-house design and manufacturing infrastructure as well as strong partnerships. We deliver end-to-end engineering services—from design and analysis through manufacturing, testing, and certification—compliant with civilian and military standards including **EN, IEC, STANAG, and MIL-STD**.

## Technical Capabilities

### Simulation-Led Engineering & Design

**We utilize computational tools to validate designs and predict structural/operational performance before physical prototyping:**

- **Structural Analysis:** Static and dynamic FEA (LISA), machine element calculation (MITCalc)
- **Kinematic Analysis:** Mechanism simulation (LINKAGE)
- **Fluid Dynamics:** Hydraulic network analysis (EPANET)
- **Fire & Smoke Simulation:** CFAST / Smokeview
- **Naval & Propulsion Design:** Hull design and stability (DELFT Ship), propeller design (HELICIEL)
- **Signal Analysis:** Mid-High Speed Signal processing (Inhouse Python Tools)



### Manufacturing & Integration

Two licensed production facilities allow rapid physical realization of complex systems:

- Custom product design, prototyping, and certification
- Metal and plastic processing
- Electronics design and embedded software development
- Bespoke sensor integration and control systems
- Final product assembly and system integration

### Unmanned Systems

- Tethered UAVs for persistent observation (government applications)



- Licensed for design and manufacture of unmanned vehicles: aerial, ground, marine, and underwater platforms



### Electromechanical Installations

- **Class A Contractor License** (Public & Private Works)
- Electrical power distribution and low-voltage systems
- Fire detection and suppression systems (20+ years experience)
- HVAC, ventilation, and cooling systems

### Condition-Based Maintenance

Proprietary monitoring systems designed and manufactured in-house:

- **Maintnode** — Permanent installation for continuous multi-sensor monitoring
- **WearDC** — Portable diagnostic control system
- **Mechbase** — Cloud-based maintenance platform



*Applications: Vibration analysis, ultrasonic leak detection, rotating equipment diagnostics*

### Facilities & Licensing

Two fully licensed production facilities in Attica, authorized by the Regional Development Authority:

Location	Licensed Activities
Alimos(HQ)	Electronics assembly, instrument manufacturing, measurement devices, control systems, unmanned sensor platforms, special machinery, R&D
Agios Dimitrios	All above plus: unmanned vehicles (aerial/ground/marine/underwater), electrical distribution equipment, small vessel construction



## Registrations

Organization	Details
NATO NCAGE	G2903
Certificate under Hellenic MoD National Industrial Security Regulation (EKBA)	Certified (Alimos; Agios Dimitrios pending)

## Management System Certifications

Standard	Scope
ISO 9001	Quality Management
ISO 14001	Environmental Management
ISO 27001	Information Security
ISO 37001	Anti-Bribery
ISO 39001	Road Traffic Safety
ISO 45001	Occupational Health & Safety
ISO 50001	Energy Management

## R&D Track Record

Program	Role	Description
National Research Project	Coordinator	Diagnostics and prognostics for marine main engines
FP7 (European Commission)	Partner	Methanol fuel cell power generation unit
SYNERGIES Attica (OPS 4582)	Lead Developer	Design and manufacture of UAV for ship emission monitoring at commercial ports



## Infrastructure

### Production Equipment

- Metal and plastic processing machinery
- Compressed gas networks
- Portable service tools and equipped vehicles
- Quality control instruments (dimensional, mechanical, electrical)
- Signal generators and analyzers
- Custom test fixtures

### Personnel

Category	Count
Graduate Engineers	5
Fitter / Welder	1
Electrician Technicians	10

### Sectors Served

Municipal Infrastructure | Healthcare | Industrial Manufacturing | Energy | Maritime & Naval | Government & Civil Protection

### Partnership Model

ARPEDON seeks to participate in collaborative R&D programs (EDF, Horizon Europe, national defense initiatives) as **consortium member or technical partner**—bringing design capability, manufacturing infrastructure, and system integration expertise.

### Contact

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