



Integrated Electronic Manufacturing Services



Inspiring, Discovering and Creating Together for over 25 years

www.mades.es

Introducing MADES

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- MADES at a glance
- Applications
- Our Services
- Building Customer Trust & Operational Excellence
- o Why MADES ?



MADES at a glance

How

Where

13 % Compound Annual Growth Rate (CAGR)



MADES Six Sigma: a process and culture of continuous improvement

Technology Park of Andalusia (PTA) in Malaga, Spain

When

What

- Major supplier of system level electronic assemblies
- **Electronic Manufacturing** Services
 - Design From Specs
 - Industrialization
 - Manufacturing
 - Testing & Integration
 - Lifecycle Support



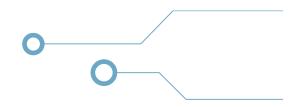
More than 100 highly skilled professionals: engineers, technicians and operators

Subsidiary of American Industrial Acquisition Corporation (AIAC)

Nearly 30 years of experience delivering customer solutions



About AIAC





Over 8,500 employees



\$1.6B in aggregate revenues



Industrial portfolio of 75 companies

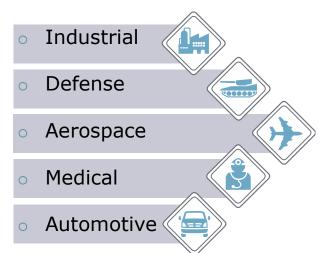


20+ years track record

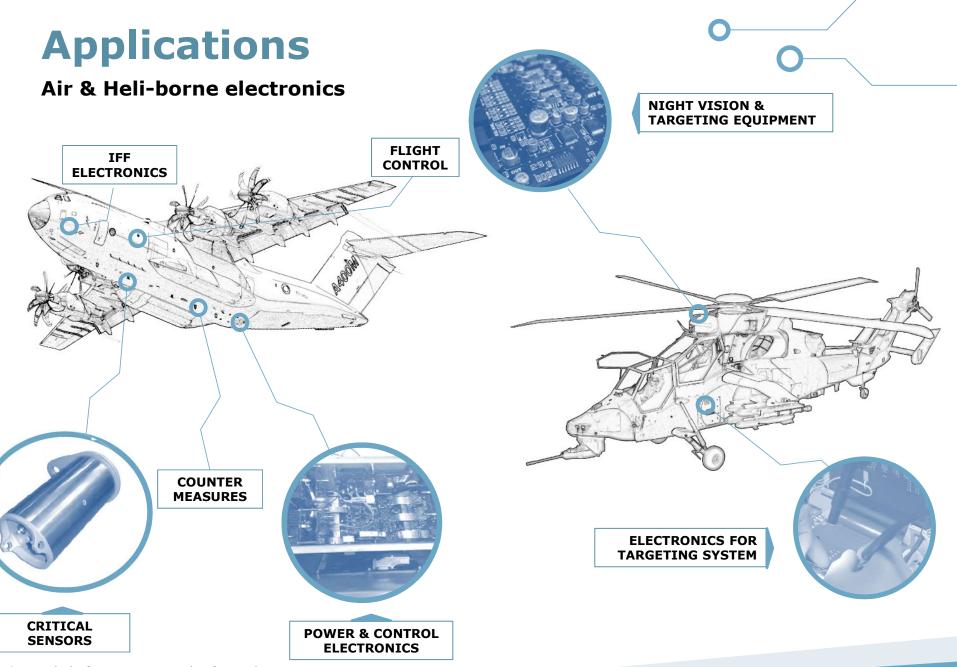
PROCESSES

- Electronics
- Aerostructures
- Metal Work
- Cables
- Pharma

MARKETS





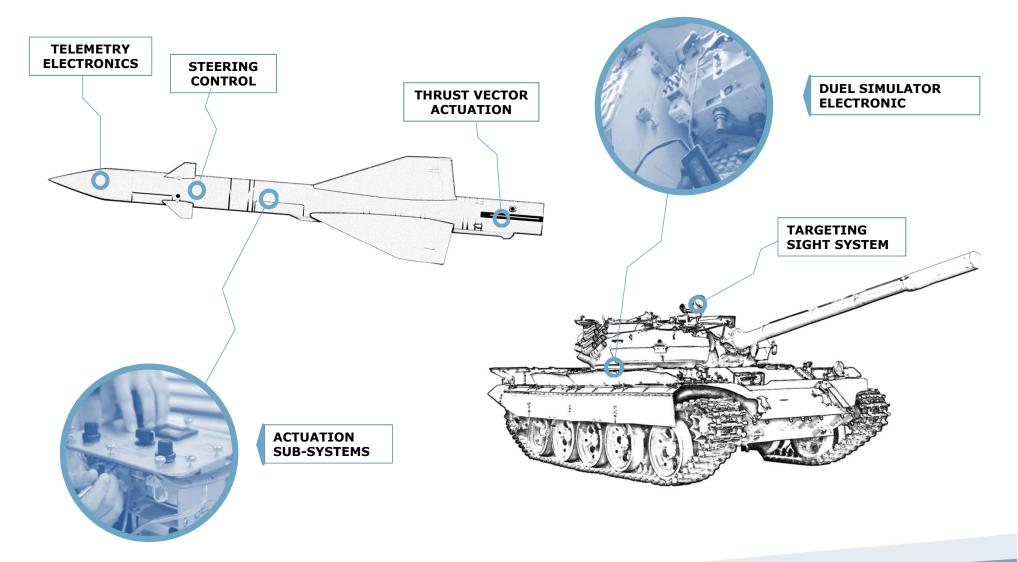


^{*} Actual platforms are examples for explanation purposes.



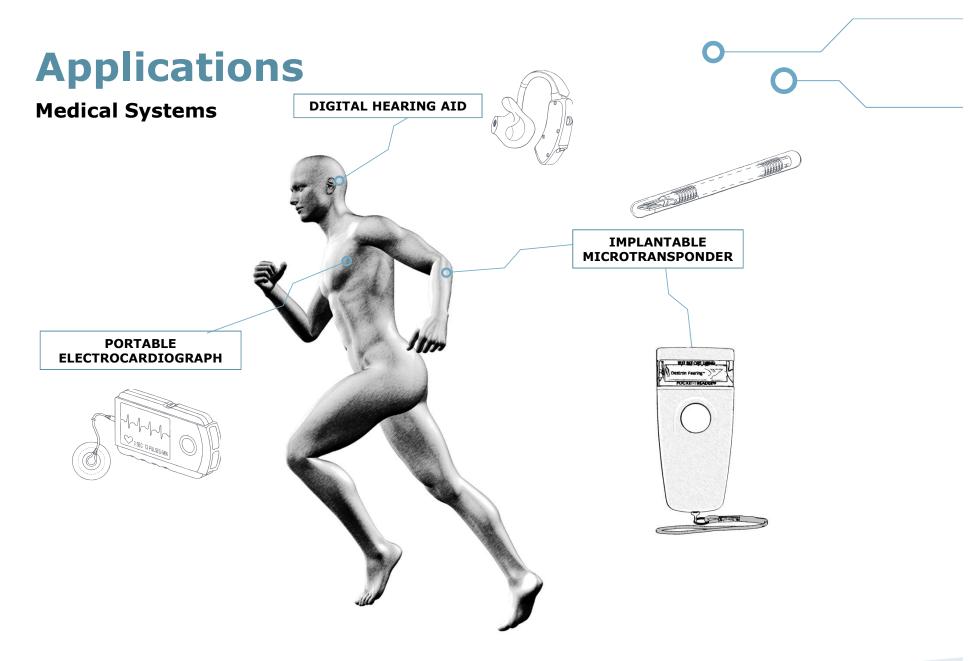
Applications

Missile & Tactical Surveillance Systems



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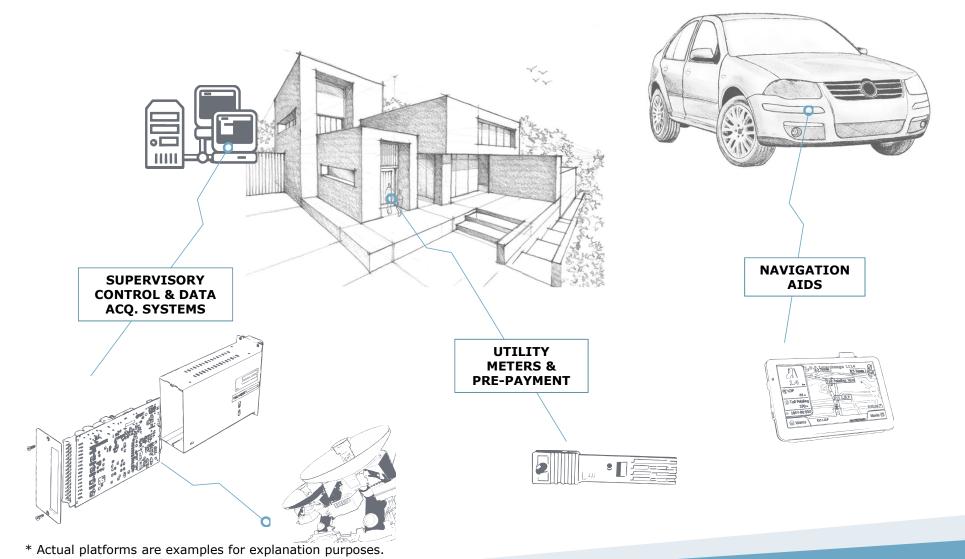


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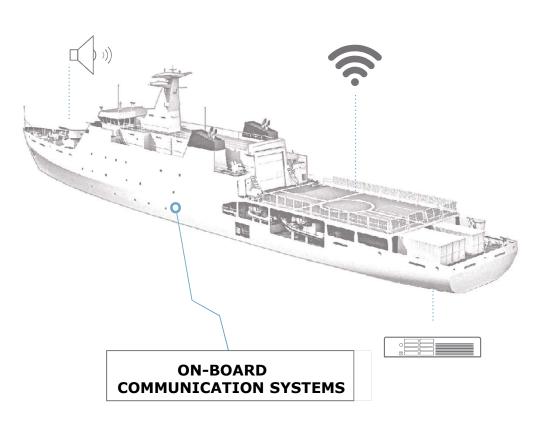
Applications

Industrial Systems

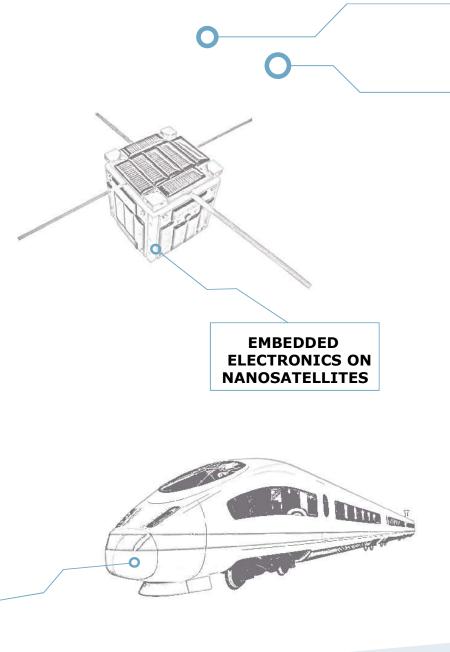


Applications

Other sectors



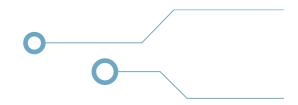
RAILWAY TRAFFIC CONTROL





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Our Services









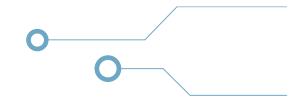


PRODUCT LIFECYCLE SUPPORT

Full Supply Chain Management. Extended Warranty, Obsolescence & Counterfeit contingency, REACH, Repairs & Logistics Support



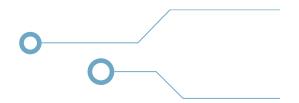
Development from Specs



- From Specs through detailed Design and prototyping to volume production and life-cycle support
- Design partner integrated with Manufacturing to minimize time to market & cost
- Internal resources & best selected collaborators to optimize manufacturing, testing and product performance



Industrialization



FAST-TO-MARKET From Design to Prototypes & Qualification











Specs

Design

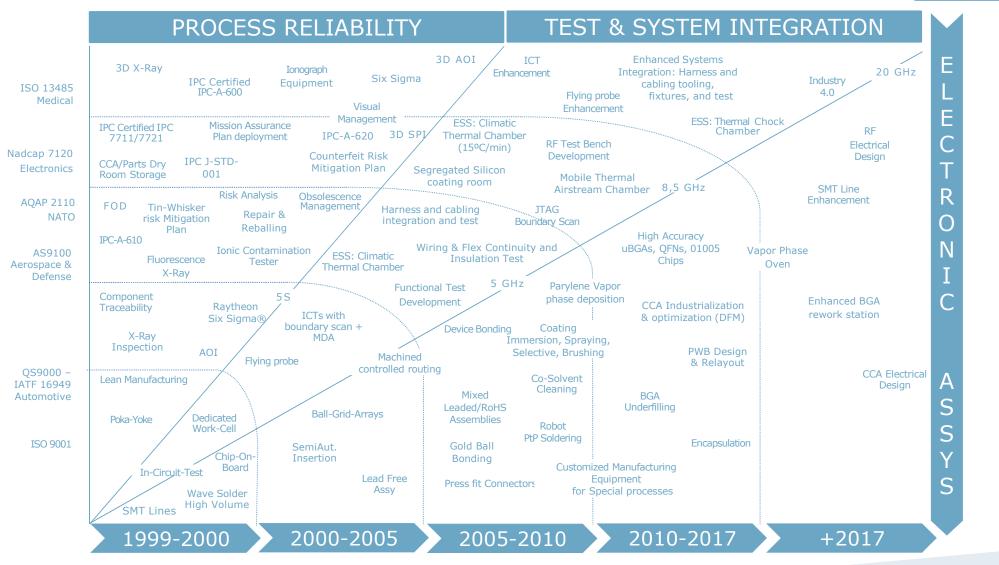
Rapid Prototyping Product Qualification

Industrialization



Manufacturing





Testing & Integration



PRODUCT RELIABILITY

High frequency testing
High power system testing

PARAMETRIC ELECTRICAL TEST



- In-Circuit Test
- Flying Probe Technology

FUNCTIONAL TEST



- J-Tag Boundary Scan
 - Complete systems or CCAs
 - Gral. Purpose or Product-Specific customized platform

ENVIRONMENTAL STRESS SCREENING (ESS)



- Wide range of Environmental Screening
- Thermal cycling and shocks
- Stability assurance under humidity conditions



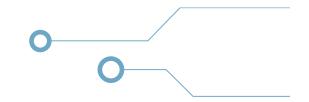
Testing & Integration



- Customer's Virtual Factory at MADES' premises
- Electro-mechanical Assemblies
- Complete Box-Build Cables & Harnesses
- Development of custom-made equipment & Special Processes Automatization



Product Lifecycle Support



- Counterfeit
- > Import/Export Compliance: EAR / ITAR
- Conflict Minerals, REACH
- Obsolescence Monitoring
- Equipment control & calibration

- Subcontract Development and Management
- > Spare Parts, Repairs

ENGINEERING

- FOD, ESD & MSL Programs
- RoHS / No RoHS Control

PROGRAM MANAGEMENT

INTEGRATED SUPPLY CHAIN

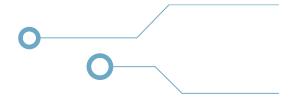
ECN, Configuration Control

QUALITY

- Production Planning
- Traceability
- Design Upgrade
- Mission Assurance Plan



Program Management



Project Planning



Risk Management



Building Customer Trust

Examples of long-term customer relationships





+ 24 Years + 105 Million Transponders USA & EU



+ 23 Years

+ 23 Million Utility Meter Applications

UK



+ 600 thousand Automotive Navigation Aids EU & USA

+ 20 Years



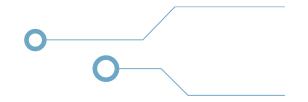
+ 15 Years

+ 20 thousand Actuation Systems

EU & USA



Operational Excellence



- Center of Excellence for Electronic Manufacturing Services
- State-of-the-art technology and continuous investment in talent and R&D
- Member of associations focused on Operational Excellence





















Quality Certifications

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- ISO 9001
- Nadcap 7120 Electronics
- NATO AQAP 2110
- EN9100 Aerospace and Defense
- Customer Special Process Facility Qualified
- IATF 16949 Automotive
- ISO 13485* Medical













^{*}MADES manufacturing processes and Quality System are aligned with requirements of ISO 13485

Why MADES?





Mature and strong processes, compliant with industry policies and certifications

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o Proven experience in major multinational programs for nearly 30 years

