

# MADES

# MADES



Inspiring, Discovering and Creating  
Together for 30 years



## ELECTRONIC MANUFACTURING SERVICES

MADES is a former subsidiary of Hughes Aircraft & Raytheon Missile Systems located in Malaga, Spain. We have been manufacturing circuit card assemblies and electronic systems for a range of international weapon systems and platforms since 1990.

In addition to providing mission critical built-to-print electronic systems for the defense sector, MADES brings its high-reliability manufacturing expertise to various complex applications in aerospace, industrial, automotive and medical markets. Our major services include Product Design, Electronic Manufacturing, Functional Test Development, and Systems Integration.

High  
Reliability  
Electronic  
Systems

Right Team,  
Right Tools,  
Right The  
First Time

# Malaga Welcomes You



Strategically located in the Technology Park of Andalucía (PTA), 15-minutes from the Pablo Picasso International Airport (AGP), a major high-speed train hub (AVE), and the busy Malaga Port, MADES has direct access to most major European and North American cities. We can be your ideal partner in Europe, North America, and gateway to the world.





## Defense

MADES is a rugged hi-tech mission leader with a complete range of battle-tested, precision quality electronics for military and security purposes. Our experienced in-house EXIM team is intimately familiar with international export compliance and controls, including the International Traffic in Arms Regulations (ITAR) and the Export Administration Regulations (EAR). MADES also takes a strategic approach to Global Industrial Cooperation partnerships.

MADES supplies complex systems including surveillance, telemetry, radar, radio frequency, power electronics, electro-optics, target identification and a host of other applications. Leading defense contractors in North America and Europe trust in the systems and subsystems manufactured by MADES. This confidence is based on our unique experience and understanding of advanced electronic systems, in order to address our clients' challenges.

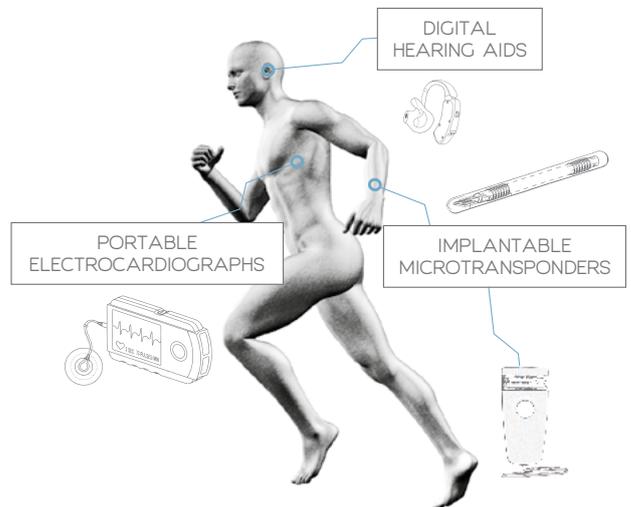
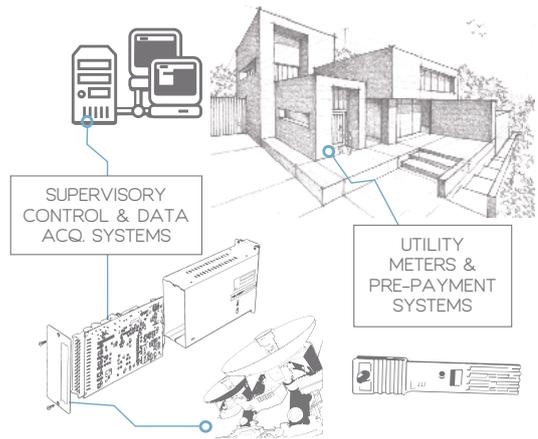
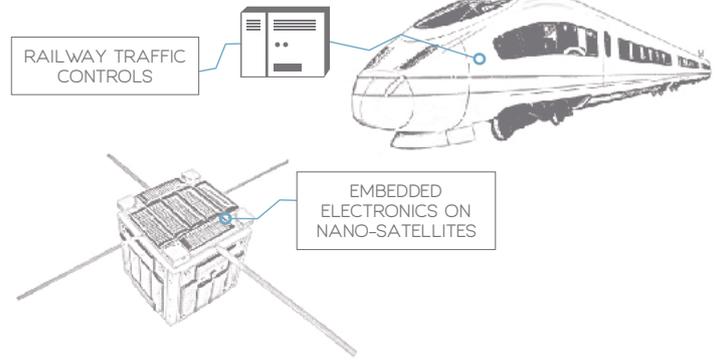
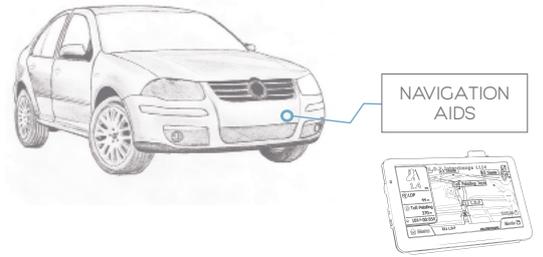
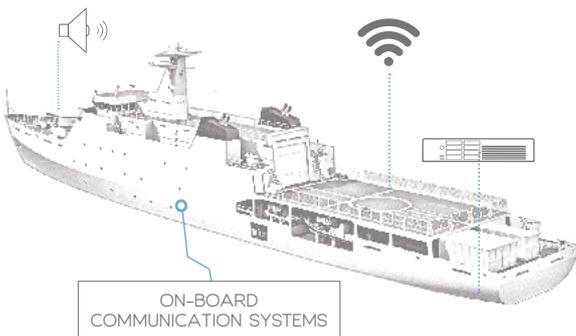
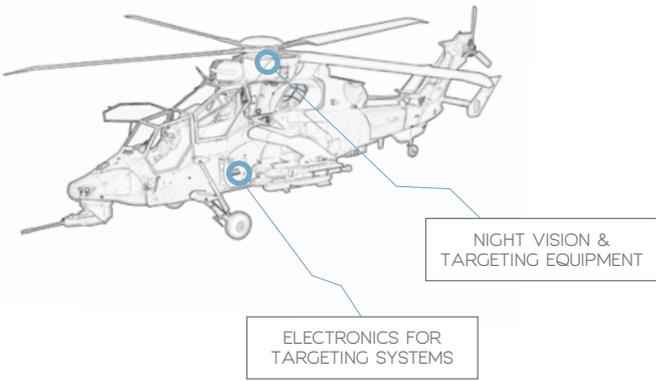
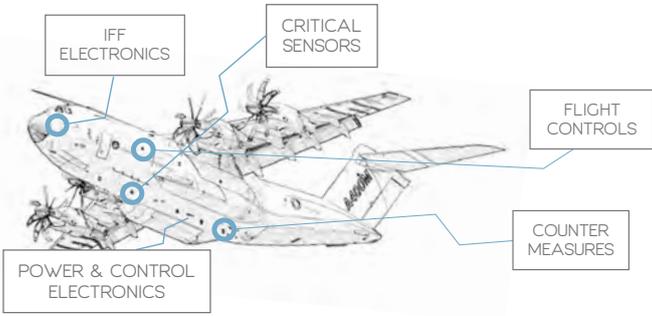
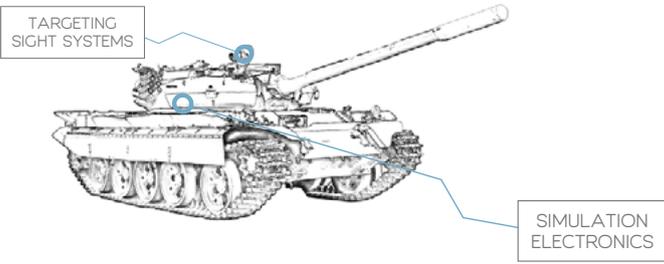
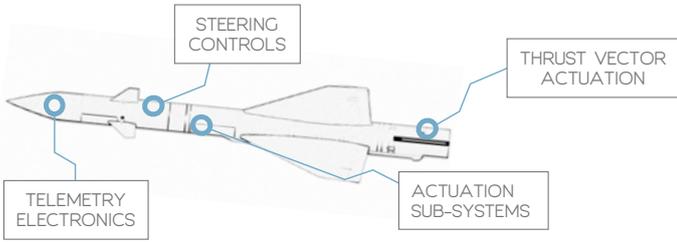
## Aerospace

MADES is highly specialized in manufacturing airborne electronic systems and new space applications. We have 30 years of experience using Lean Manufacturing, applying continuous improvement processes, and adhering to MADES' rigorous Six Sigma quality program. MADES is also registered to EN 9100 certification and the Nadcap 7120 Electronics accreditation.

World class standards allow MADES to participate in large international programs, offering unparalleled reliability, and on time delivery metrics above industry standards.

Typical applications in which MADES successfully serves its clients are actuation systems, communications, control electronics and other spaceborne critical systems.







# Automotive

MADES also applies its 30 years' experience as an IATF 16949 certified manufacturer in high reliability safety-critical electronics. We deliver infallible applications such as airbag control modules, GPS fleet management, and self-propulsion navigation systems.

We've manufactured airbag control modules and driver assistance systems since 1992, under the management of Hughes, within the General Motors Group. MADES' operational excellence allows us to excel in this highly competitive sector.



# Industrial

MADES is much more than a built-to-print shop, we're a true partner. We provide expertise in designing from spec, rapid prototyping, and design optimizing for manufacturing. We also offer strategic supply chain management, life cycle support, and obsolescence monitoring. Together, we'll get you there on time, on budget, and on scope.

One of our current Industrial projects includes advanced energy metering infrastructure components for the entire U.K. We're also at the forefront of cutting-edge smart HVAC (heating, ventilation, and air conditioning) electronics, and manufacture critical high-speed railway traffic control systems.



# Medical

MADES specializes in the design, manufacture and integration of complex and precise electronic systems for the medical industry, in compliance with FDA requirements. We offer a cleanroom manufacturing space as well as our experience and technological knowledge, which enables us to manage all size production batches of medical equipment. All MADES manufacturing processes and Quality Systems are aligned with requirements of ISO 13485. Some of our products have included portable electrocardiographs (ECGs), digital hearing aids, and implantable RFID technology.

## Key Performance Indicators

### Quality



### On Time Delivery



MADES industry beating KPIs are made possible by our rigorous commitment to a Six Sigma company culture. We also continually exceed our client's highest expectations by providing additional expertise in export compliance and controls, Obsolescence Management, Lifecycle Support, Conflict Mineral compliance (CMRT), REACH, TIN LEAD Whisker mitigation, and Industrial Participation (Offsets).

# About **MADES**



## WHAT

### Sample applications

- Defense: radio frequency, power electronics, and target identification systems
- Aerospace: low Earth orbit (LEO) satellite control, actuation, and communication systems
- Industrial: commercial air distribution, manufacturing control optics, and railway communications systems
- Automotive: fleet control, airbag deployment, and navigational systems
- Medical: digital hearing aids, portable electrocardiographs, and human implantable RFID systems

## WHO

### Some of our clients

- Top 10 defense and aerospace OEMs
- Top 5 global energy company
- North America, Europe, and UK based

## WHEN

### Manufacturing Pedigree

- 30 years of experience delivering customer solutions
- Inherited know-how from Hughes Aircraft & Raytheon Missile Systems
- History of consistently delivering under 50 ppm level of quality, and over 99.5% on time delivery

## WHERE

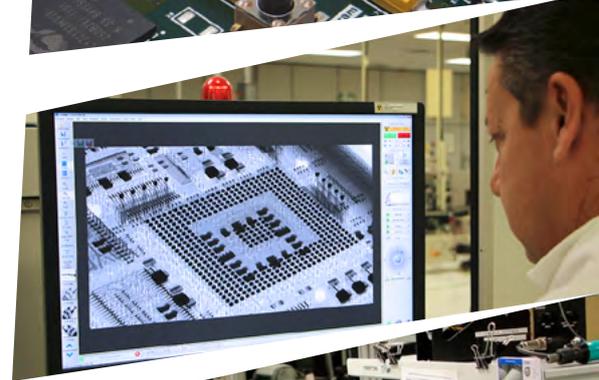
### Global Expertise

- With ITAR/EAR, EXIM, and offset expertise we are where our customers need us to be
- US, EU, UK and exploring Global Industrial Participation opportunities in key countries

## WHY

### Our Mission

- Build the most sophisticated, reliable, and highest quality electronic systems, delivered through service excellence, becoming a fundamental part of our customer's success



# **MADES**

Málaga Aerospace, Defense & Electronics Systems, S.A.

Parque Tecnológico de Andalucía

Av. Juan López de Peñalver, 12

29590 · Málaga · Spain

Phone +34 952 249 200

info@mades.es • www.mades.es

