

END-TO-END SERVICES FOR ROBOTICS AND DRONE SOLUTIONS

ELECTRONICS DEVELOPMENT

TESTING & APPROVALS

ELECTRONICS MANUFACTURING
SERVICES



Expertise in rugged electronics design and customized firmware and software development. Proximity to compliance, certification, and manufacturing services at competitive prices for the EU market.

Rapid prototyping and iterative development

Flexible and collaborative team with staff in various locations

NRE cost distribution for startups

Collaborative long-term partnership approach

Integration with cutting-edge technologies

DEV support for any stage from prototyping to development

Innovation-infused, scalable and flexible solutions

Strategic guidance and business insights

FLEXIBLE COOPERATION MODEL



Fixed team



Fixed project price



Time & material

DEVELOPMENT EXPERTISE

Development and adoption of proprietary software for the robotics and aerospace frameworks

Building SW and HW platforms for the future product

Communication protocols selection, implementation, and testing

Machine Learning and Artificial Intelligence

Integration of the numerical models and system business logic

Smart sensors fusion

Worldwide approval readiness for mass-scale production

Functional and system safety

Energy management



INDUSTRIES

- Agriculture
- Automation
- Defense & Security
- Drone Technology
- Energy
- Health and Welfare
- Manufacturing
- Robotics

EKTOS knows how to develop for production and can therefore develop a real product that can be produced and that can function reliably in the field

- David Bourgeois, CEO, CyanView

Accredited and non-accredited testing

Two well-equipped DANAK-authorized typetest labs

Experienced and flexible test engineers

Application-specific approvals

Obtain approvals for 80+ countries

Short lead times and competitive prices

TESTING SERVICES

Environmental and HALT testing

TRS assesses product durability and performance under varying conditions, including temperature, humidity, and vibration/shock

Safety testing

Compliance with international electrical safety standards for industrial and consumer application such as:

EN 60335-1 - Household and similar electrical appliances – Safety – Part 1: General requirements

EN 62368-1 - Audio/video, information and communication technology equipment - Part 1: Safety requirements

EN 61010-1 - Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements

EMC/EMI testing

- Radiated emissions and immunity
- Conducted emissions and immunity
- Fast transients and surges
- Electrostatic discharge (ESD)
- Mains harmonics, voltage dips, and interruptions

For example:

EN 61326 Laboratory/ Measurement standards

EN 55032/55035 Multimedia standards

Generic standards:
EN 61000-6-1
EN 61000-6-2
EN 61000-6-3
EN 61000-6-4

Functional testing

Reliable and safe functionality of robotics, automation, and drone solutions in real-world scenarios based on the customer's specifications and requirements

Radio testing

DANAK-accredited for radio testing in the EU, USA, and Canada for ensuring proper functionality of robotic devices or systems with radio modules

- Immunity
- Emissions

Remote control, data transmission, and coordination between multiple robots



Support for notified bodies and third-party certification agency approvals



TESTS & APPROVALS COMPLETED FOR CUSTOMERS



CE EMC



FCC RADIO



SAFETY



CE RADIO EMC



CE RADIO



FCC EMC

At EKTOS the process is simple. I think they are a bit more flexible than their competitors, so I have absolutely nothing to complain about.

- Ulrik Lundberg, Managing Director, Neat Electronics



ELECTRONICS MANUFACTURING SERVICE

- ✓ Agile manufacturing
- ✓ ISO 9001 and ISO 13485 certifications
- ✓ Design optimization with EKTOS
- ✓ Efficient sourcing and supply chain
- ✓ In-line and end-of-line testing
- ✓ Short lead time
- ✓ Experienced manufacturing team
- ✓ Collaborative partnership approach
- ✓ Engineering support
- ✓ BOM cost optimization
- ✓ Lifecycle support and after-sales services
- ✓ Professional box-build

AREAS OF SPECIALIZATION

Efficient NPI & sourcing

IPC-A-610 class 1-3 PCBA assembly

Multi-level quality control

Cable / Harness mounting

ESD-compliant box build

Functional testing

PTS (Product Test System)

Professional repair, incl. BGA rework

PCBA conformal coating/sealing

Retail packaging

High-efficiency in-line Yamaha SMT machines

Professional manual and semi-automatic THD soldering

TECHNICAL CAPABILITIES

Passive components down to 0201

Specialized product assembly line

SUPPLY CHAIN MANAGEMENT AND COMPONENT SOURCING

TECHTO provides robust supply chain management solutions to mitigate risks associated with component shortages, obsolescence, and lead time fluctuations

Proactive inventory management

Strategic sourcing partnerships

Alternative component recommendations

Cost-efficiency and production continuity

With our cooperation with EKTOS Development and TECHTO Electronics, our device hit the market within a short amount of time. We are able to maintain product cost on a competitive level and enjoy support for manufacturing over the years.

- **Christian Mortensen, Founder & Owner, AirWallet**

GET THE COMPLETE SOLUTION FOR A HASSLE-FREE JOURNEY



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