

NORTECH ELETTRONICA

EMS | Electronic Manufacturing Services

We create value beyond production.

Nortech Elettronica is an EMS partner that supports customers throughout the entire lifecycle of the electronic product.

Nortech Elettronica Srl

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” Our Mission

Transforming projects into reliable electronic products across multiple application fields

Our mission is to help customers transform their ideas into reliable, industrializable, and competitive electronic products.

Nortech Elettronica is an EMS partner that supports customers throughout the entire lifecycle of the electronic product. We do more than assembly: we intervene upstream in the process to reduce critical issues, optimize design choices, and build a solid production path from the very beginning.

We constantly invest in technology, processes, and people to ensure continuity, reliability, and industrial scalability. Our value is not just producing — it is making your idea manufacturable.

"The goal is one: reducing risks, time, and costs while ensuring long-term quality."



We operate with an integrated model that combines:

- ✓ Design expertise for production
- ✓ Controllo completo della supply chain
- ✓ Certified production processes
- ✓ Structured quality system
- ✓ Complete product lifecycle management

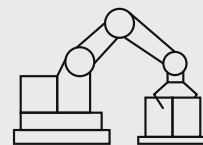
Operating Model

An integrated process in four clusters

Nortech Elettronica structures its activities into four closely interconnected operational areas.



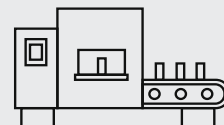
Design



Prototyping



Industrialization



Production

Each phase is designed to integrate with the next, generating a continuous flow that accelerates time-to-market and strengthens product reliability.

Design

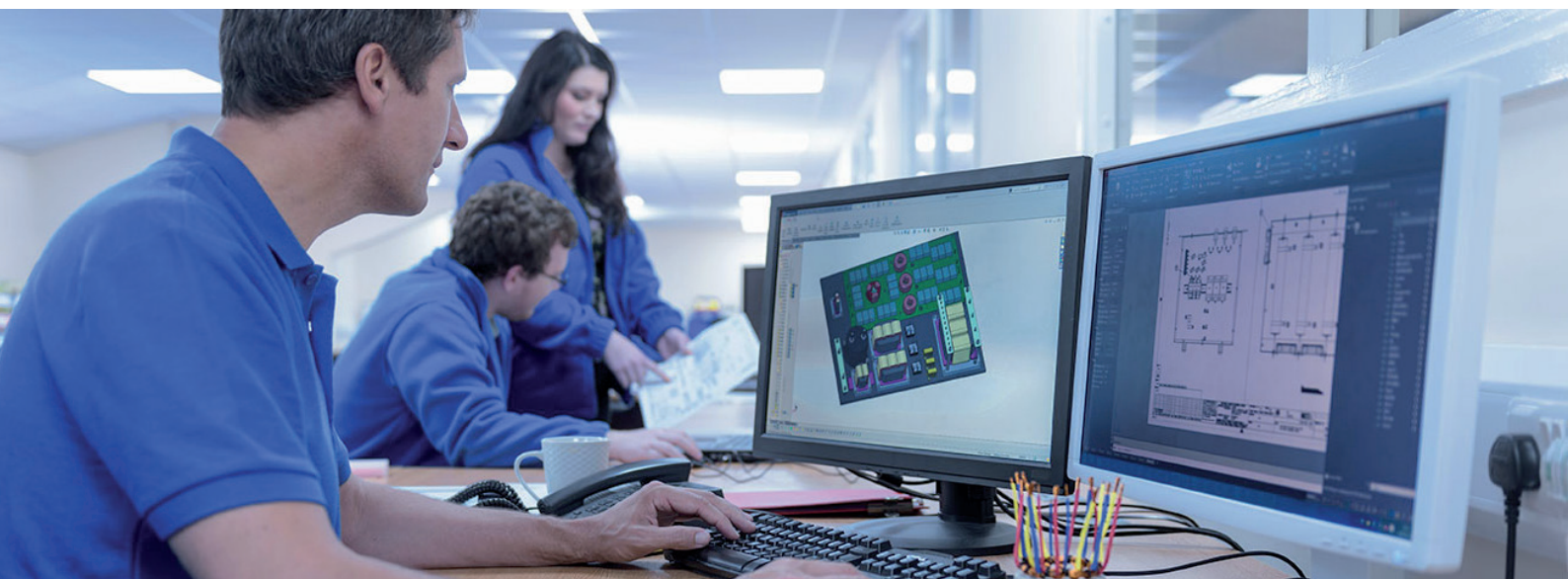
Designing with production in mind

We support development teams from the earliest stages, with an industrialization-oriented approach.

Our expertise includes:

- ✓ Analog and digital electronic design
- ✓ Hardware and firmware development
- ✓ Windows and Linux software development
- ✓ Certification support

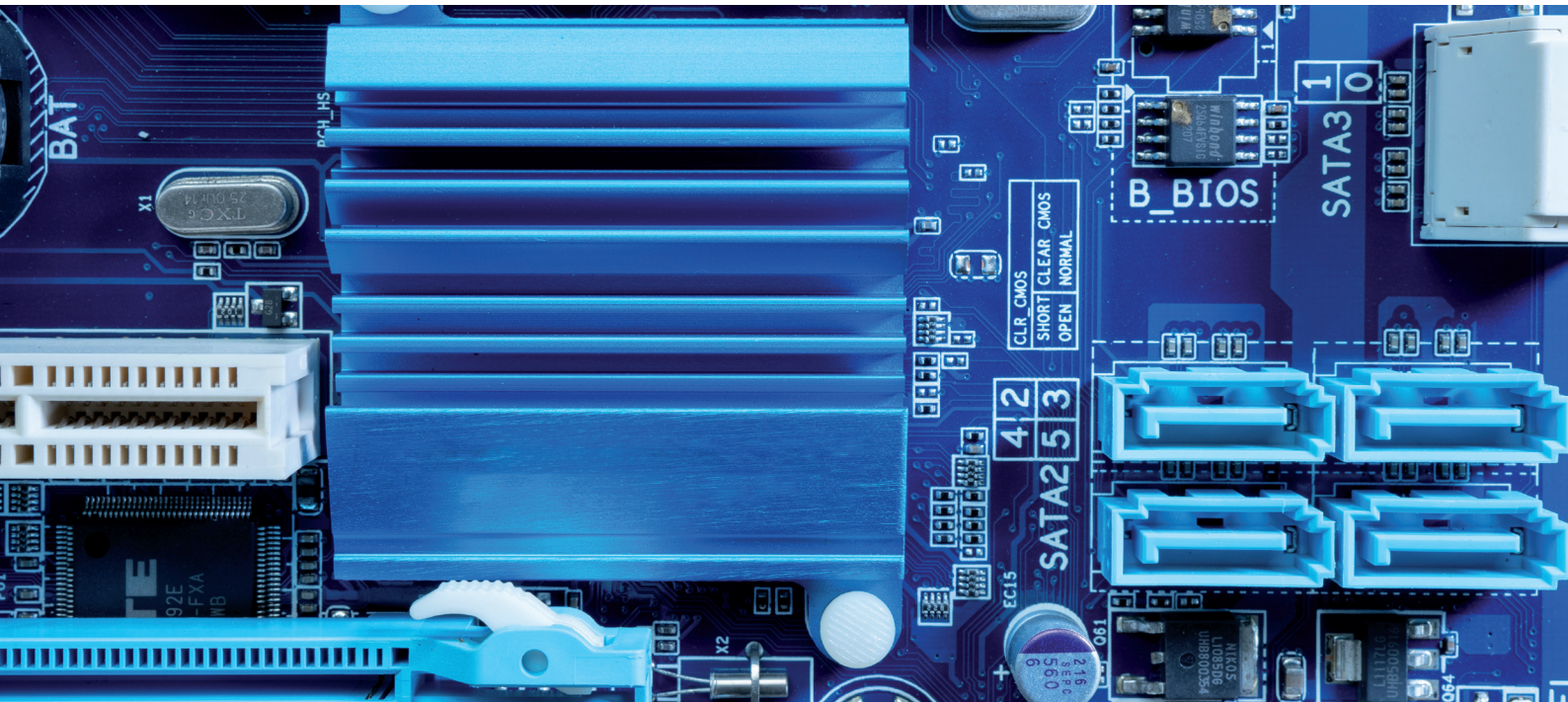
We design technically robust solutions, developed from the early stages to ensure efficient and repeatable production.



Prototyping

Validate quickly. Correct before industrializing

Prototyping is not just a technical step — it is a strategic moment.



Nortech Elettronica ensures:

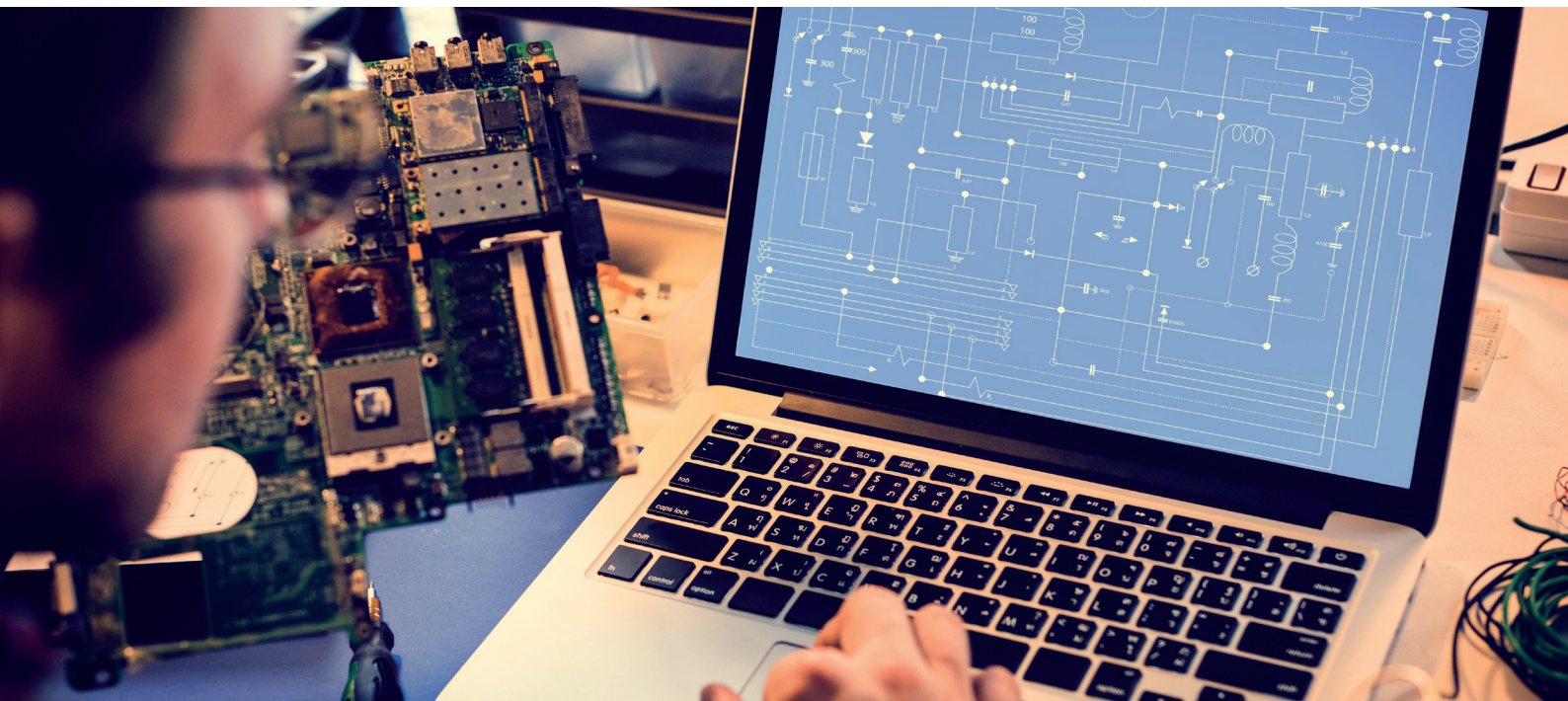
- ✓ SMT and THT Prototype Assembly
- ✓ Material procurement management
- ✓ Fast execution
- ✓ Final report with results of macro analyses performed
- ✓ On request: Life cycle and components compliance; DFx

We design technically solid solutions, already conceived to be produced efficiently and repeatably.

Industrialization

From prototype to industrialized product

Industrialization transforms a functioning design into a product manufacturable on an industrial scale.



Through dedicated software we perform:

- ✓ Life cycle and components compliance
- ✓ Layout checks using DFT, DFM, and DFA techniques
- ✓ Virtual PCBA manufacturability analysis
- ✓ Development of fixtures and test benches

The result is a solid, repeatable, and controlled process throughout the entire product lifecycle.

Production

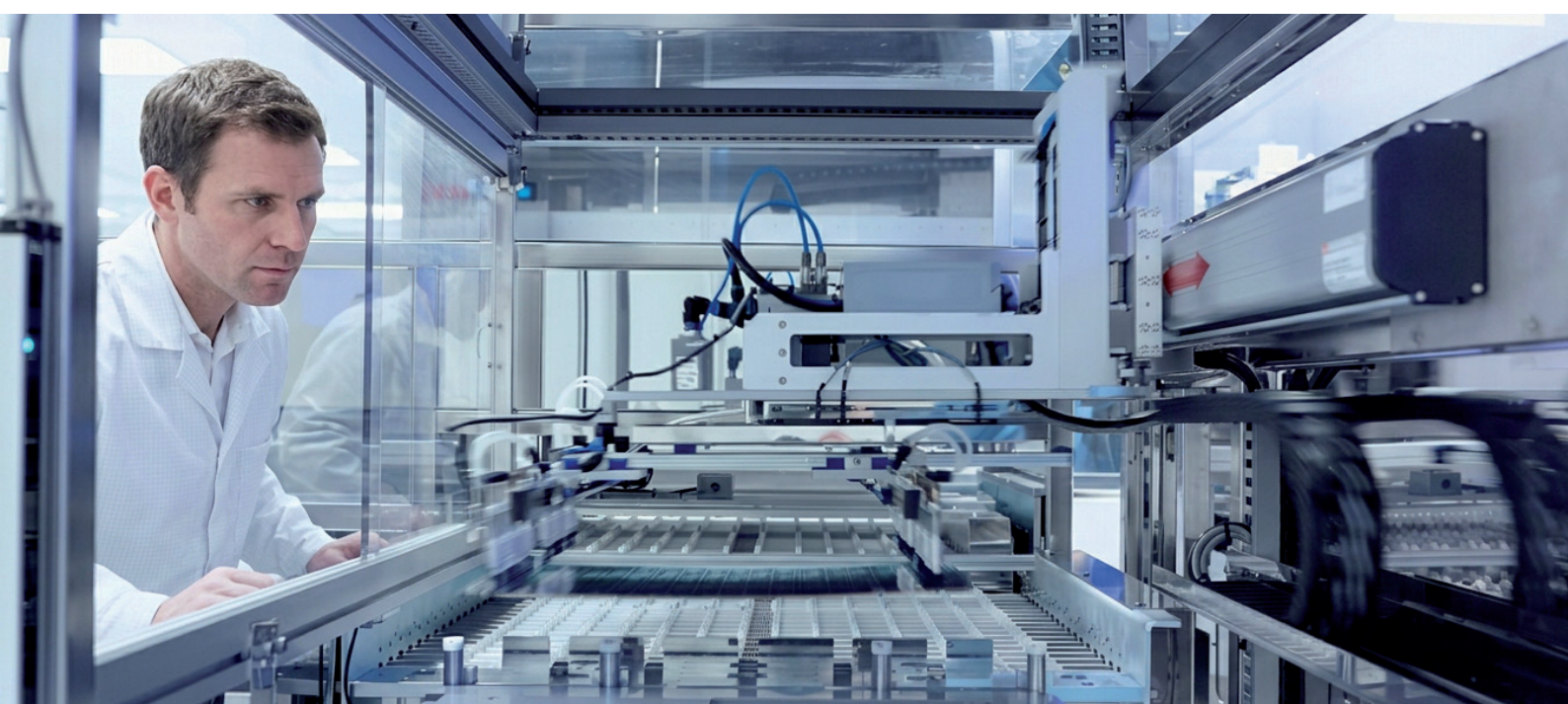
Continuity, quality, scalability

Processes ensuring traceability and full compliance with design specifications.

Management of the entire production process:

- ✓ Component sourcing and consigned material management
- ✓ FAI e PPAP for process validation
- ✓ SMT and THT assembly
- ✓ Washing, conformal coating and potting
- ✓ ICT and functional testing
- ✓ Finished product assembly
- ✓ Full traceability
- ✓ After sales

We operate with certified systems and an organization focused on continuous improvement, ensuring production stability and consistent quality.



Target Markets

Nortech Elettronica supports companies operating in technologically complex sectors, where quality, traceability, and production continuity are essential.



We operate where reliability and control are not optional.

Rail

Structured processes, regulatory compliance, and high quality standards.

Industrial & Automation

Solutions for critical environments, long lifecycle products, and operational continuity.

RF & Telecom

Electronic solutions for network infrastructure, voice/data transmission, RF systems, and professional communication platforms.

Automotive

Rigorous process control, reduced variability, and long-term stability.

Space & Defence

Precision, documentation control, and reliability in extreme operating conditions.

Home Automation & Energy Mgmt

Applications for consumption monitoring and IoT tools.

Quality and Certifications

Quality as a system

At Nortech Elettronica, quality is integrated into every phase of the process, from design to mass production.

Our structured system ensures:

- ✓ Maintenance of high quality and regulatory standards
- ✓ Continuous monitoring of company KPIs
- ✓ Documented and traceable processes
- ✓ Training and continuous improvement

Our Certifications:

- ✓ ISO 9001:2015 - Quality Management System
- ✓ ISO 22163:2023 - IRIS - Railway Industry
- ✓ IATF 16949:2016 - Automotive



Certification is not a goal, but an operational tool to ensure reliability, risk reduction, and long-term continuity.

Where value takes shape

We structure the process from the earliest stages to ensure control, consistency, and reliability throughout the entire product lifecycle.

Product identity card

Starting from customer-provided documentation, we develop a structured technical analysis supported by dedicated software tools, leading to the definition of the Product Identity Card. A comprehensive set of technical reports covering both the electronic board and the finished product, including:

- Assembly and manufacturability analysis
- Testability evaluation through DFT
- Manufacturing analysis through DFM
- Complete BOM documentation
- Compliance verification and component lifecycle management (lifecycle, shelf life)

This approach establishes a solid and shared data foundation from the outset, reducing uncertainties and potential issues in later stages.

Integrated Supply Chain Management

Component management is fully integrated within the production process. We offer flexible material management solutions, ranging from full BOM sourcing to complete production with customer-owned materials, including hybrid models with shared supply management.

We operate on both electronic and mechanical components, in the case of finished products, through advanced ERP systems and software tools that enable:

- Coordinated material planning
- Continuous availability monitoring
- Proactive critical issue management
- Obsolescence and compliance control

The result is a stable, traceable supply chain aligned with production requirements.

Prototyping with structured technical documentation

Prototyping is a phase of both technical and industrial validation, not just execution.

In addition to assembly, we provide a set of technical documents supporting decision-making in the early stages of the project.

Reports include:

- Identification of critical issues (warnings)
- Manufacturing-oriented recommendations
- Optimization for future production
- Predictive component analysis (upon request) to verify compliance

Early intervention at this stage allows potential issues to be anticipated and overall process efficiency to be improved.

Sustainability

Integrating sustainability and performance means building long-term value.

At Nortech Elettronica, sustainability is an integral part of our operating model. We operate according to ESG criteria (Environmental, Social, Governance), combining environmental responsibility, production efficiency, and people focus within a continuous and measurable path.

Environmental Management: We have initiated the process for ISO 14001 certification, adopting a structured approach to reducing environmental impact.

Key activities include:

- Energy consumption control
- Electronic waste management
- Continuous improvement of environmental performance

Energy Efficiency: The installation of a photovoltaic system allows us to cover part of the energy demand of our production processes.

The renewal of our company fleet with electric vehicles contributes to reducing emissions in daily operations.

People e Governance

Corporate Social Responsibility is an integral part of our organizational model.

We operate according to principles of transparency, ethics, and accountability, ensuring consistency in decision-making processes and continuous attention to people.

Sustainability is a continuous journey, embedded in our operational and strategic choices. An approach that strengthens our role as a reliable, responsible, and long-term industrial partner.

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