

EXPERTISE

This division is structured to meet **the most advanced needs in horizontal and vertical development** and integration of automation solutions, with a particular focus on:

- Advanced PLC programming for Standard and Safety applications
- Software programming for HMI and SCADA applications
- In-house construction of Electrical Panels for industrial automation
- Design of local and distributed fieldbus architectures
- Databases for data logging, analysis, processing, export, and reporting
- Standardization of integration protocols (e.g., OPC UA)
- Remote support via remote access systems
- **CYBERSECURITY**: current state analysis and development for compliance
- **INDUSTRY 5.0**: development of Energy Monitoring systems
- Development of client-server architectures / services / applications via network / Cloud
- Integration with MES / BI / ERP systems
- Advanced IT and networking skills
- High-availability and fault-tolerant systems (redundancy at instrumentation / process control / supervision).

APPLICATION AREAS

Transition 5.0
Air treatment systems
Utilities management
Industrial processes
Functional safety systems
Handling

**Main brands used
for our automation solutions**

SIEMENS  **Rockwell
Automation**

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CATTANEO AUTOMATION
FUTURO. INNOVAZIONE. EFFICIENZA.



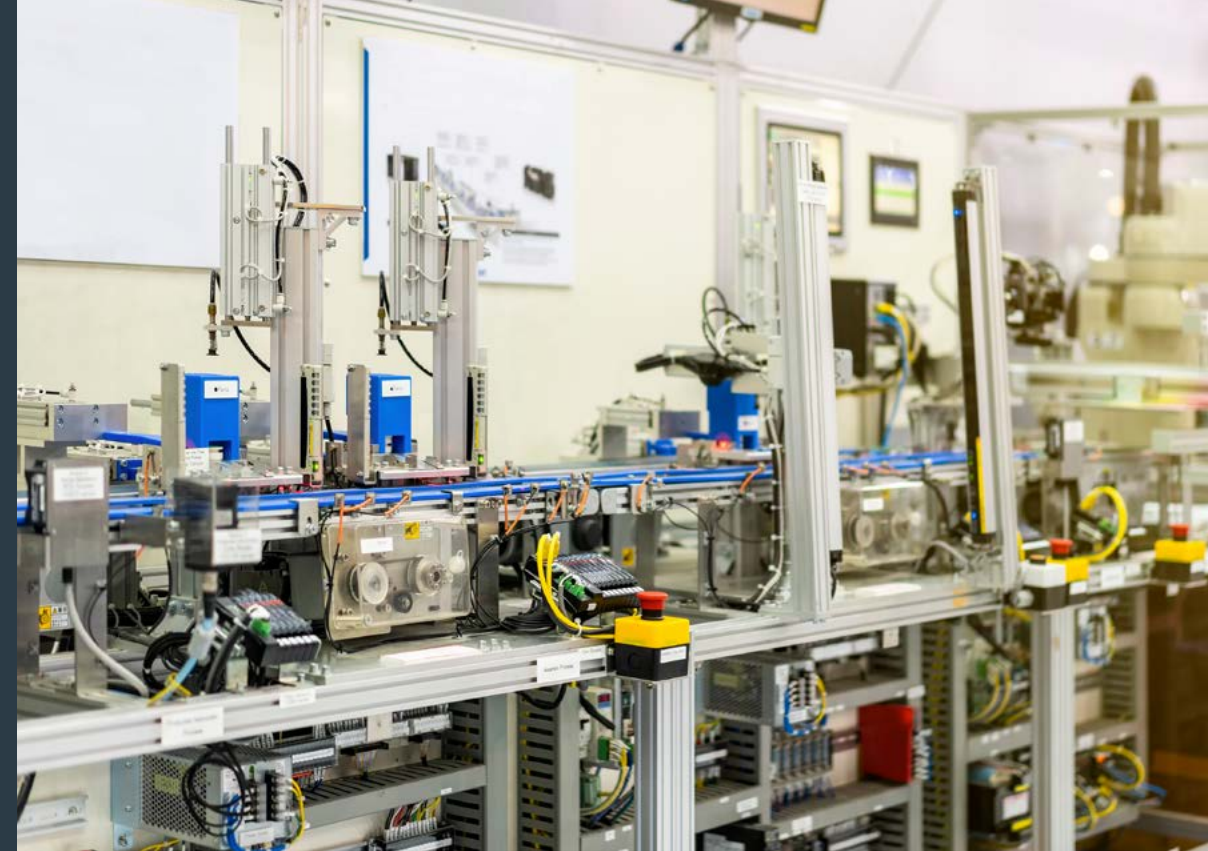
**Tailor-made industrial
automation: innovation
and control for every
production process**

The automation division consists of a multidisciplinary team with expertise

ranging from process control, supervision and data analysis, electro-instrumental systems to IT. The team is characterized by many years of experience with the **most widespread market technologies and in various application contexts.**

We develop industrial automation solutions (process control and supervision) in compliance with **international industry standards** and guidelines, based on **PLC, HMI, SCADA**, on **local or distributed fieldbus and network architectures**, up to integration with **MES, BI and ERP systems at plant level.**

Our in-house engineering team carries out requirements analysis, design, development, commissioning and start-up, as well as post-sales service, supporting the customer throughout the entire system lifecycle, from feasibility study to the commissioning of plants and machinery.



ENGINEERING

We manage the **entire lifecycle of automation solution development**, in compliance with international industry guidelines:

- FEASIBILITY STUDY
- REQUIREMENTS ANALYSIS WITH THE CLIENT (*URS*)
- ARCHITECTURE DESIGN (*DS*)
- FUNCTIONAL DESIGN (*FS*)
- DEVELOPMENT
- TESTING AND VALIDATION (*FAT, SAT*)
- QUALIFICATION (*IQ, OQ, PQ*)
- COMMISSIONING & START-UP

INDUSTRIES

PHARMACEUTICAL AND FOOD 21 CFR Part 11

Our expertise in process control extends to the development of computerized systems (SCADA) compliant with FDA regulation 21 CFR Part 11, ensuring the preservation, reliability, and security of electronic records created during the production process (management of electronic records and signatures).



GAMP 5

Cattaneo Impianti offers the development of category 4 (SCADA) and category 5 (custom applications) computerized systems in compliance with GAMP 5 guidelines, aligned with regulatory requirements for validation practices in industrial environments.

CHEMICAL AND OIL & GAS

Our extensive experience in the sector allows us to support clients in customizing projects related to pilot and/or production plants, as well as skid-mounted automation. We directly and internally carry out all macro and detailed design activities: from feasibility studies to Commissioning and Start-up.



MANUFACTURING AND LOGISTICS

We develop solutions for the management of systems related to transport and handling; we have in-depth knowledge of the sector's specificities, including reading and scanning systems, signal acquisition cycles, and information processing speed.

