

www.rap-systems.ro

 **RAP** Systems

**Engineering
solutions for
Your business.
Together**

Contents

Why RAP Systems?	4
Services	8
Industrial automation and automatic process control systems	8
Electrical automation and control panels	9
Integrated solutions for buildings - KNX partner	16
Pneumatic transport systems - AEROCOM partner	17

Integrated industrial automation solutions

RAP Systems - Efficient control over the production process

RAP Group companies:



Engineering solutions for Your business. Together

RAP Group - Key figures

Constant growth

RAP Systems is the company within RAP Group specialized in providing industrial automation and process control solutions.

RAP Systems is part of RAP Group and shares the same healthy growth and functioning principles.



30+

Years of specialization

40+

Countries we activated in

300+

Members of #TeamRAP

1000+

Completed projects

Customized industrial automation systems

The efficiency of production processes can be significantly impacted by automation. Automation means increased speed, fewer sources of error, and improved overall process efficiency. RAP Systems provides industrial automation solutions for various industries such as food and beverage, pharmaceutical and automotive applications.



We properly implement the industrial automation process in order to offer a series of advantages:

Increased productivity: Automated processes will be executed faster

Decreased operational costs: Automation will result in reduced costs for labor and quality assurance of the cost of goods sold can decrease dramatically



Increased Product quality: Automated processes will consistently produce high-quality output

Decreased routine process parameter checks: Because automated processes will monitor and adjust their own process parameters, there is less need for humans to perform these tasks

Safety: Automated lines will handle jobs that are dangerous for humans, thereby increasing workplace safety

Flexibility: Automated production machinery is easily reconfigured for different products, product lines, and production run sizes

Simulation modeling: Industrial automation enables a new process to be simulated in a virtual environment, using new tools in order to identify issues and make adjustments before going into production



Why RAP Systems?

20 years of industrial automation

RAP Systems is part of the RAP Group and has been providing automation and process control solutions since 2002.

For 20 years, we have often encountered the question: “Is automation a threat to human intervention in the production process?” For us the answer is simple. Automation technology only gives people room to innovate by freeing them from repetitive, tedious, and error-prone tasks.





Cutting-edge technology and innovative ideas

We believe that automation can only achieve the best results when complemented by a solution-focused mindset. Innovation is one of our key differentiators. We are always curious, we think outside the box and we are always aiming for excellence.



Flexibility

We see our customers as partners. We position ourselves as strategic advisors, constantly seeking the most efficient solutions to drive growth. We tailor our command and control system to your needs and ensure open communication flows.



Continuous improvement

Change is the only constant in technology. We keep ourselves up to date with the latest best practices in our field and offer fully customized solutions to suit your needs.



Proven Experience

Over the last 20 years of industrial automation and process control, we have developed the skills to manage complex projects. Thanks to our commitment to maintaining the highest quality standards, we have successfully completed many projects around the world.



What motivates us?



Healthy partnership

Whether with clients, collaborators or colleagues, we strive to build relationships of trust where transparent communication and commitment are fundamental.



Continuous development

There is always room for improvement and there is always a ready solution to a difficult situation. We are avid explorers of innovation, always aiming to find the shortest path to the best results.



Team & Technology

We pride ourselves on our curious team. They are passionate, knowledgeable and have a keen eye for detail.

Team spirit experts

RAP Systems has grown with a team of engineers, technicians and experts in various fields. We work according to clear procedures and have a united team ready to successfully cope with any challenge.



Services

- PLC Programming
- HMI Programming
- Recipes and recipe management
- Historical and real time analog value trends (Hystorian)





Electrical automation and control panels

We design and build electrical panels for:

- Industrial Automation
- Low voltage Distribution

We create electrical engineering designs using E-plan.

Our electrical panels are certified in accordance with applicable standards and bears CE mark.

We offer:

- On-site installation and commissioning
- Pneumatic transport systems (pneumatic mail)



Industrial automation and process control solutions

HMI (Human Machine Interface) Programming

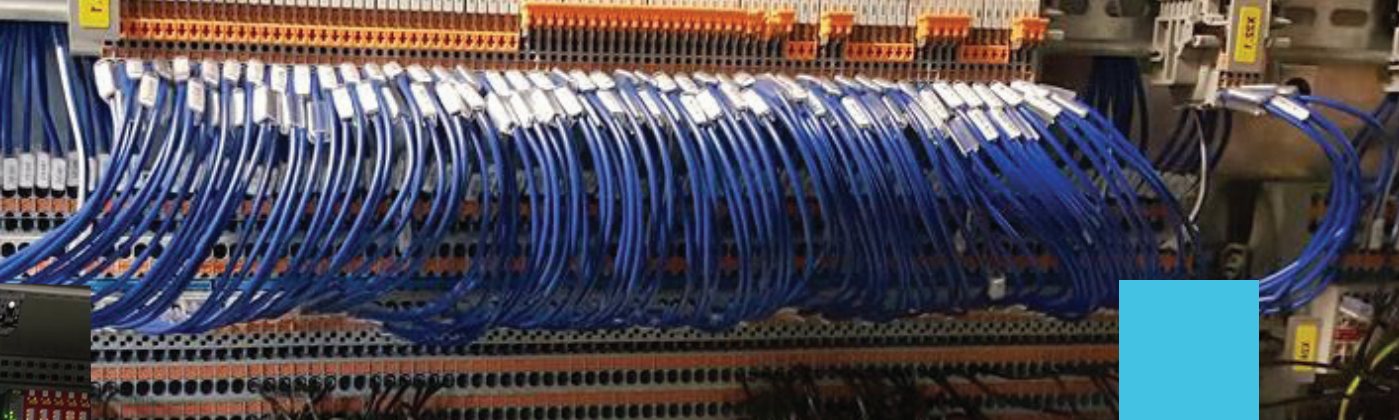
Our specialized engineers design your HMI as a graphical representation of your automated system (Process Cell Overview) in order to meet your needs.

We design our HMIs to provide to your operators an understanding of both process details and bigger picture production trends in this way generate efficiency improvements and cost savings.

HMI Visualization may contain:

- User accounts and permissions
- Top-down architecture
- Message visualization
- CM and modes visualization (faceplates, procedural/equipment/process state)
- Alarming (actual and historical)
- Trending





PLC Programming with Siemens and Rockwell (Allen Bradley equipment)

Based on our customers' needs, our team of experienced engineers provide command and control systems developed on the following platforms:

- **SIEMENS:** Simatic S7 3xx, S7 4xx, S7 15xx, S712xx, WinCC, TIA Portal, PCS7.
- **ROCKWELL:** Allen Bradley, RSLogix, RSView.

We have expertise in all aspects of industrial automation, control systems and machine tools. You can rely on RAP Systems to provide a readable program with a full set of design documents, in order to achieve one or more of below advantages:

- Standard program structures for maintainability
- Reusable code blocks and sequential functions to shorten development time and eliminate bugs
- Cross-domain expertise benefits all aspects of a project, not just controls
- Strong debugging skills to bring up new systems on schedule or even early

SCADA & Utilities

Monitoring

RAP Systems SCADA Systems offer great flexibility in use, allowing you to monitor systems and processes also with the ability to remotely control equipment over a network.

Our SCADA systems (Supervisory Control and Data Acquisition) is concerned with gathering process information from industrial control processes found in utilities such as power grids, water networks, transportation, manufacturing, in order to provide the human operators with the required real-time access to industrial processes to be monitored and controlled either locally (on-site) or remotely (through Internet).

We have developed our multi-agent systems using a new architectural style for engineering complex and highly dynamic applications. This type of SCADA system has the following advantages:

- Simple - easy to implement;
- Flexible - able to adapt to its environment dynamic changes;
- Interoperable - relative to the underlying control systems, which belong to diverse of providers

Electrical control and command panels

Whether we are talking about the design and execution of single, modular or series production switchboards, we can adapt to any requirements.

All command and control panels are certified according to the applicable standards and bear the CE mark. All switchboards are manufactured to the highest standards of functionality and appearance, regardless of size or function.

In order to have the best solutions for our customers, we work with the best equipment suppliers in the world: Festo, Siemens, ABB, Phoenix Contact, Endress & Hauser, IFM and many others.

- We provide hardware design for all phases of electrical projects: location of equipment in the electrical control panel, electrical diagrams, installation plan.
- We design and execute prototypes of electrical command and control panels, instrumentation or electrical panels of unique automation or small and medium series.
- We design and execute wall, floor, or self-supporting electrical switchboards.
- We modernize outdated command and control systems, ensuring their repair and reconditioning.
- We provide pneumatic control panels, full instrumentation integration and pneumatic process valve control.
- In case of relocation of production lines and/or industrial equipment, we perform electrical panel upgrades to meet local requirements and standards.

Installation at the beneficiary's premises and commissioning

Customized services for increased control over production

We provide full support to our clients throughout the project: From creating the technical specifications to the post-warranty stages.

- Technical assistance in developing the technical specification of the project
- Programming of control elements
- Electrical design
- Execution, installation, and commissioning of systems
- Service during the warranty and post-warranty period
- PLC and HMI programming
- Training of operating personnel



Factory automation & Upgrades for production lines

We provide customers from various industries, a complete list of plant engineering services beginning with planning and concept design to commissioning.

- Start-ups and assistance with all the equipment produced at customer's sites
- Control panel install and commission
- Pre-site surveys — electrical diagram

We perform also installation work, including the following:

- Cable trays installation
- Positioning and mounting of electrical cabinets
- Cabling
- Electrical connection

Production completion and quality requirements are assured by our start-up and commissioning work that includes:

- I/O checks
- Sensor calibration
- Motor tests
- Dry and wet tests
- System tuning and optimization

KNX partner

Smart home and integrated solutions for buildings

Rap Systems is an authorized integrator of the KNX protocol for Smart Homes and Smart Buildings. The association was formed through a partnership between suppliers, integrators and designers for the promotion of KNX in Romania.

- Office buildings
- Residential buildings
- Hotels



Scan the code to find out more





AEROCOM partner

Pneumatic transport systems

The pneumatic transport system is controlled by an industrial computer. The capsules are transported fully automatically to the desired destination, using different types of stations, which are chosen according to the customer's needs and applications.

aerocom
pneumatic tube systems worldwide



Scan the code to find
out more



Scan the QR Code to find our more about our projects!





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Engineering solutions for Your business. Together