

by PETRONIK

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PETRONIK portfolio

hello@petronik.com

sales portfolio



Who we are What we stand for

Since 1986, PETRONIK Automation has been a specialist in automation, measurement and control technology, operating successfully in markets around the world.

PETRONIK Automation is globally recognized as a name synonymous with quality, reliability, and economic efficiency.

PETRONIK stands for the development and manufacturing of highly innovative automation solutions that deliver exceptional performance and are the result of collaborative, customer-focused engineering partnerships.



How we work

PETRONIK offers its customers a partnership-based approach, innovative turnkey solutions, and reliability throughout every phase of project development and execution. Project objectives and long-term perspectives are defined and implemented jointly with our customers.

01

PETRONIK principle

What We Bring to the Table

The PETRONIK Principle guarantees security and reliability in all areas of industrial automation:

Production continuity, error prevention, continuous optimization, preventive maintenance.

Wherever PETRONIK is involved, operational reliability is built in.



About us

40+ Years

of experience

45

employees

2

locations

500+

successful projects





History

1986

Foundation of PETRY Engineering as an engineering and design office in the Eifel region of Germany

1991

Foundation of PETRONIK Automation GmbH and establishment of the electrical cabinet production

1999

Expansion into the United States through the establishment of PETRONIK Automation Inc. in Bloomingdale, Illinois, driven by increasing overseas demand

2006

Relocation of PETRONIK Automation Inc. to Houston, Texas



History

2014

Relocation of PETRONIK Automation GmbH and PETRY Engineering headquarters to a modern, energy-efficient and sustainable facility in Bitburg, Germany

2019

Development and implementation of a new corporate identity, including a redesign of the PETRONIK corporate brand and logo

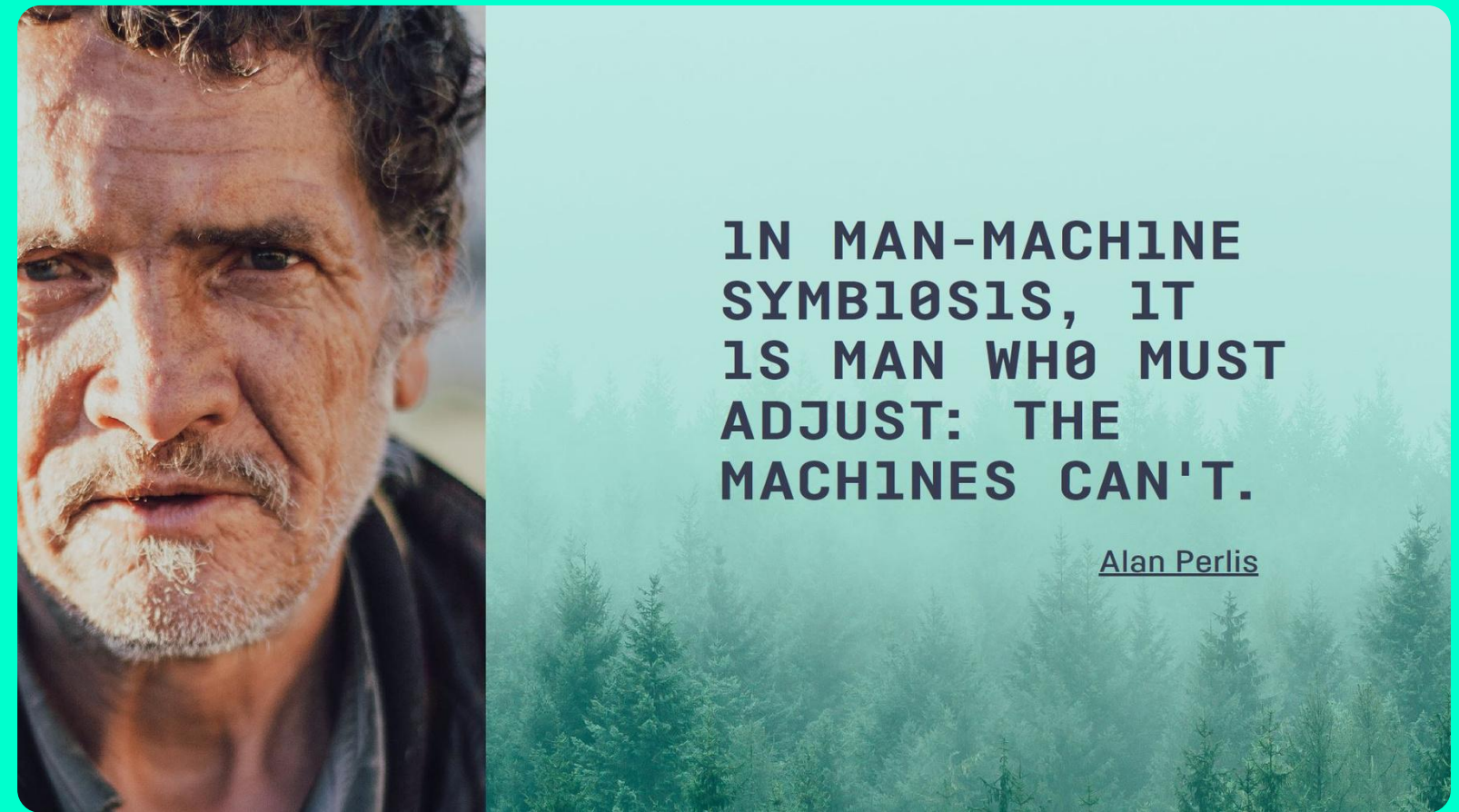
2021

Daniel Petry joins the management team to continue leading the family-owned business in its second generation

2023

Expansion of production and warehouse facilities, alongside the creation of a modern collaborative workspace

First project



Municipal Waste Incineration Plant – 1988

Our journey began with the programming of a large-scale flue gas treatment system at the municipal waste incineration plant in Coburg, Germany. This first project was more than a challenging automation assignment, it became the foundation of PETRONIK as we know it today.

It established the engineering standards that still define us:

High-quality software engineering, reliable industrial processes and close collaboration with our customers.

From this project we grew the company that is now internationally recognized for premium automation solutions.

BEYOND AUTOMATION

Engineering services

Our documentation and engineering services ensure that every project is not only implemented with technical precision, but is also transparently documented, fully traceable, and compliant with applicable standards. We place particular emphasis on regulatory compliance, efficiency, and customer-focused execution.

- Preparation of configuration schematics and power distribution diagrams
- Complete hardware and software documentation
- Preparation of approval and compliance documentation (CE, EAC, UL, IEC)
- Hazardous area (Ex) documentation and safety calculations
- Preparation of certificates of origin
- Support for documentation in accordance with inspection and test plans
- Audit support and coordination
- Participation in HAZOP studies and risk assessments



Electrical engineering

Control & power panel design

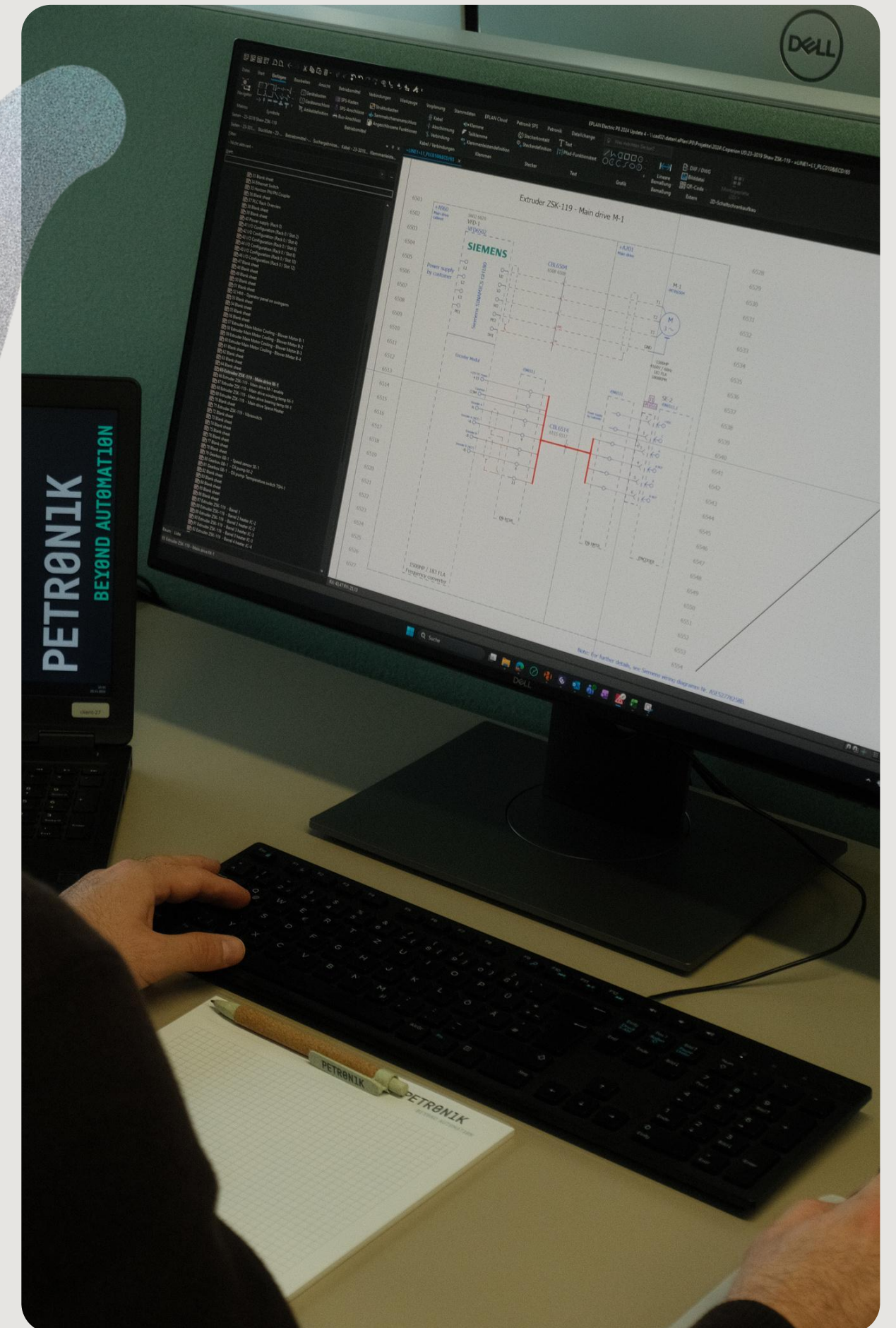
We provide complete engineering and documentation of complex control and power systems using EPLAN Electric P8.

- Electrical schematics, single-line diagrams and loop diagrams
- Terminal diagrams and cabinet layout drawings in 2D and 3D
- Cable lists, equipment lists and I/O lists
- Development of project-specific operation and maintenance manuals

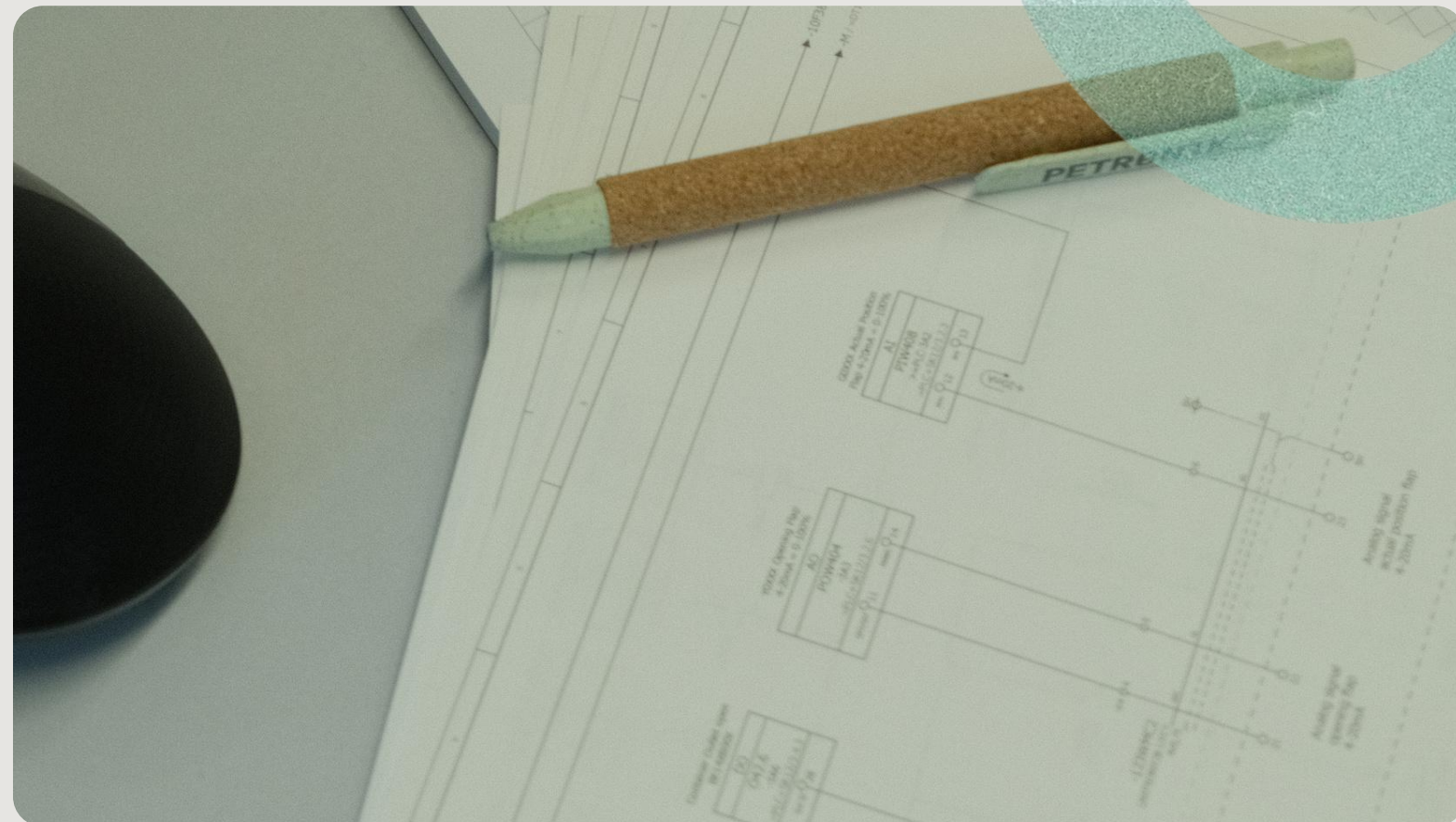
Junction box design

For safe and efficient field wiring, we design junction boxes with clear structure and standards-compliant identification.

- Terminal and layout drawings in 2D and 3D
- Complete cable and equipment lists
- Comprehensive junction box documentation



Electrical engineering



Field installation Engineering

- Our installation engineering ensures practical, safe and cost-efficient implementation in the field
- Cable tray, grounding and cable routing design
- Bill of materials preparation and installation material selection
- Integration into overall project execution
- Interface coordination and documentation

Instrumentation

Our engineers develop customized instrumentation and control solutions tailored to process requirements, safety standards, and industry-specific regulations.

From specification to hook-up drawings, we provide documentation that guarantees quality, transparency and traceability.

- Engineering and documentation using COMOS and Engineering Base
- Development of instrumentation specifications
- Engineering and supply of specialized sensor and actuator components
- Development and maintenance of instrument indexes
- Preparation of motor and instrument data sheets
- Detailed instrumentation installation and hook-up drawings



Software engineering

Intelligent automation starts with well-designed software. Our specialists develop customized control and visualization systems that are standards-compliant, future-proof, and precisely tailored to customer process requirements. From functional specifications to final commissioning, we deliver complete engineering solutions for efficient and safe plant automation.

Scope of Services

- Preparation of documentation for software development and project documentation
- Development of PLC control software and HMI/SCADA applications
- Testing, simulation, commissioning and optimization of hardware and software

Engineering Details

- Functional descriptions, Cause-and-effect diagrams, Sequence diagrams
- Logic diagrams (ISA / IEC) and interface lists
- Operator screens and user manuals
- PLC programming (Siemens, Allen-Bradley, Schneider Electric, Beckhoff)
- Safety PLC programming
- HMI and SCADA development (Siemens, Allen-Bradley, Schneider Electric, Beckhoff)
- Process control system engineering using Siemens PCS 7



Cabinet production

We manufacture customized low-voltage control systems in accordance with IEC and UL 508A standards.

Scope of service

- Manufacturing of control and power distribution panels
- Assembly of junction boxes and integration of instrumentation
- Use of standards-compliant components
- Retrofit and modernization packages for existing facilities
- Configuration of variable frequency drives and signal converters
- Manufacturing of Ex-certified junction boxes, local control stations and control panels

Inspection & Testing

Every control panel is tested prior to shipment according to the highest quality standards.

- Functional testing and complete wiring verification
- IEC and UL compliant acceptance testing
- Testing according to customer-specific inspection and test plans
- 100% final inspection including detailed test reports



Cabinet production



Spare parts management

To ensure long-term plant availability, we provide comprehensive spare parts services.

- Procurement, inspection and shipment of spare parts
- Full component traceability
- Long-term availability and technical consulting

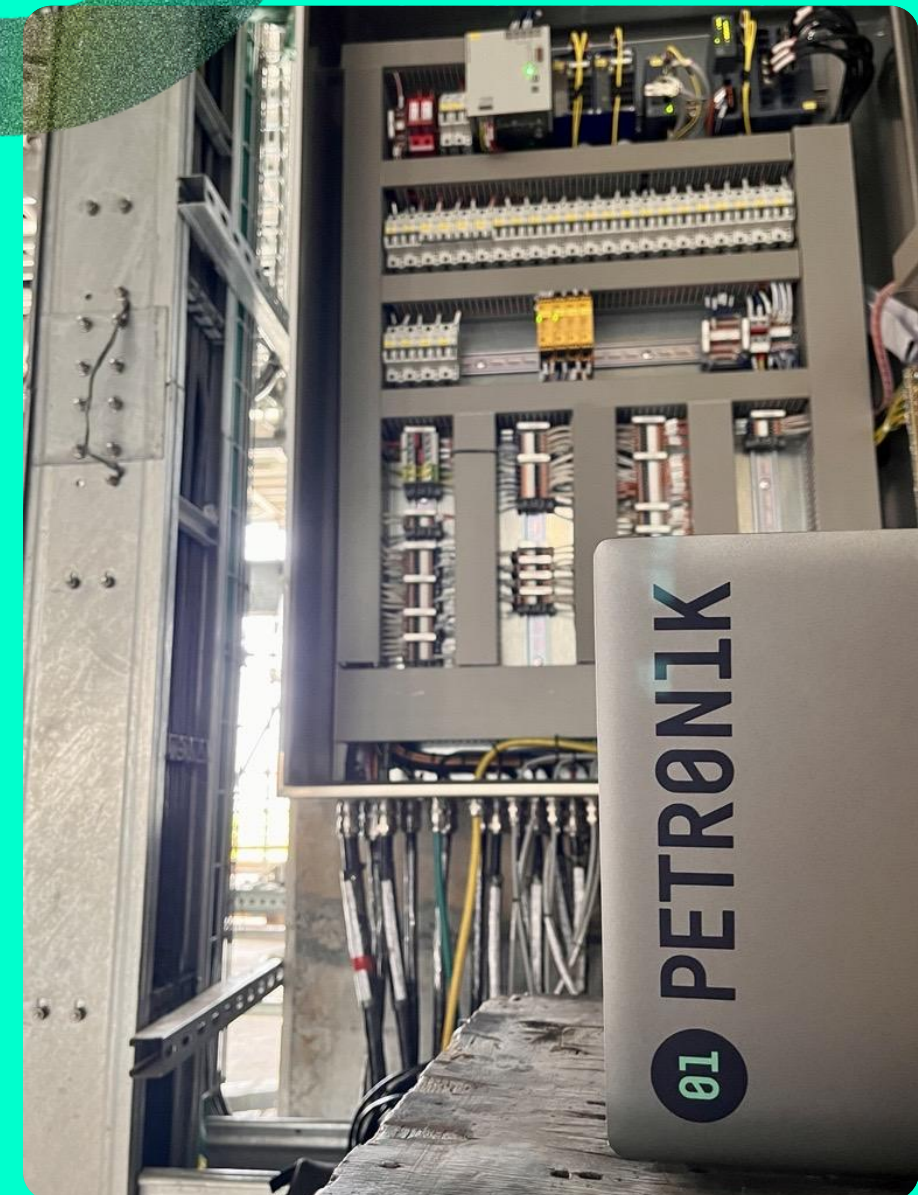
Service

Technical support and engineering expertise – worldwide.

Our service team supports customers throughout the entire project lifecycle, from commissioning to long-term operational support. Whether on-site or remote, we deliver smooth project execution, rapid response times and the highest technical standards.

Our services

- Assessment and documentation of existing installations for modernization projects
- Supervision of electrical installation activities
- Interface testing and site acceptance support
- Commissioning and functional testing
- Customer training for operation, maintenance and safety
- Process optimization and modernization
- Remote diagnostics and support

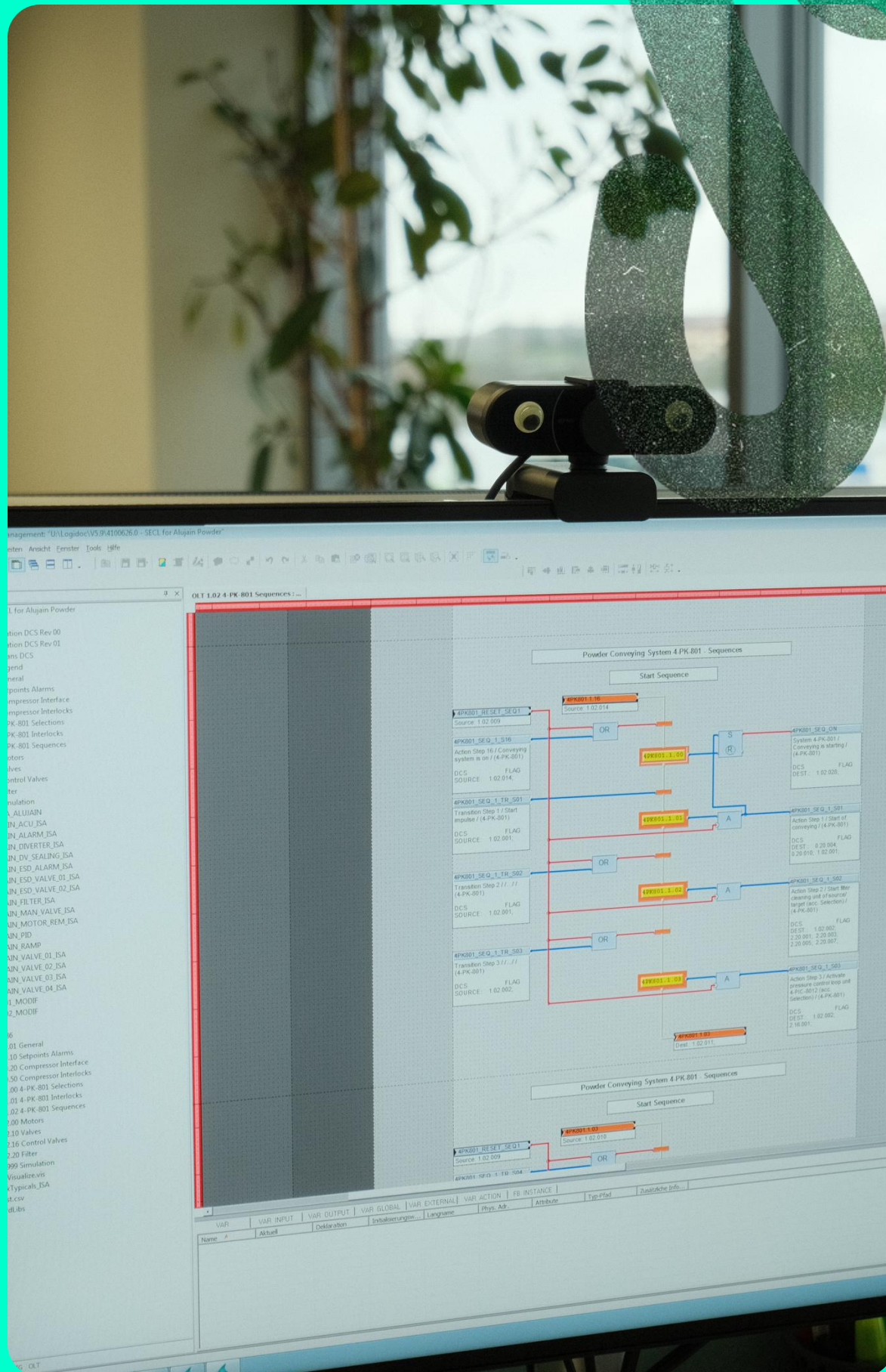


Lead Engineering

We take responsibility for the technical leadership of Electrical, Instrumentation & Control (E&IC) disciplines and ensure that requirements, deliverables and interfaces are consistently coordinated and implemented throughout complex projects. From specification through final acceptance, we ensure transparency, compliance and technical consistency.

Scope of services

- Technical and commercial coordination with suppliers and end customers regarding E&IC matters
- Monitoring compliance with all E&IC specifications
- Coordination and review of E&IC documentation
- Implementation and validation of E&IC data within engineering tools and customer-specific platforms
- Support for PFD and P&ID documentation and revisions
- Management of supplier factory acceptance tests and inspections



PLC-Systems & Visualization Systems

- Siemens
S7, TiA Portal, PCS7
- Allen-Bradley
Studio 5000
- Schneider Electric
EcoStruxure Control Expert
- Beckhoff Automation
TwinCAT 3

- Siemens
WinCC, PCS7
- Allen-Bradley
FactoryTalk
- AVEVA
InTouch/ Archedra
- Schneider Electric
EcoStruxure Operator Terminal Expert



Certifications

PETRØNİK

BEYOND AUTOMATION



- Siemens Solution Partner
- Rockwell System integrator
- Wonderware System integrator
- UL 508A Certification for industrial control panel manufacturing according to U.S. standards

Get in touch



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Consulting
Engineering
Manufacturing
Service

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BEYOND AUTOMATION

our sales team



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thank you

RESPONSIBLE
EXPERIENCED
SOLUTION-ORIENTED
RELIABLE
COLLABORATIVE
INNOVATIVE
PASSIONATE
CURIOUS
VISIONARY

