

IT services

Dedicated IT solutions
for the manufacturing
industry



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amiSter
solutions for the industry

Discover the offer of IT services

1

PROGRAMMING FOR PRODUCTION

We are constantly developing the competences of our team. We want to increase our knowledge also in the field of safe and universal web technologies. Thanks to this, our partners gain access to solutions at any time and place and from any device. The systems are adapted to all platforms and created in a responsive way.

2

MES (Manufacturing Execution System)

- We have knowledge of software of many brands including: AVEVA, COPA-DATA, Mitsubishi, Siemens.
- We implement dedicated solutions.
- We develop our own MES class systems.

3

SCADA (Supervisory Control and Data Acquisition)

We have competences in solutions of e.g AVEVA InTouch, System Platform, COPA-DATA zenon, GE Digital iFix, Mitsubishi Electric ICONICS, Siemens SIMATIC WinCC.

4

REPORTS

All our solutions are equipped with dedicated reporting systems based on Microsoft Power BI and Microsoft Reporting Services technologies. The created reports always respond to the individual needs of a given company.

5

RELATIONAL DATABASES

SQL (Structured Query Language) is an indispensable part of all our services. It can be a part of a comprehensive project.



Our competences

Check out what percentage of our team has knowledge of specific tools.

90%

Data visualization

e.g. Microsoft Power BI and Microsoft Reporting Services.

90%

Databases

including those from Microsoft SQL Server.

80%

Programming languages

e.g. C#, C++, JavaScript, Python, TSQL/SQL, VBA.

75%

Web-backend

e.g. ASP.NET, Entity framework core, WCF, Python (Django, Flask), Node.js (express.js).

65%

Communication standards and protocols

e.g. OPC UA, Modbus, TCP/IP, UDP.

60%

Web-frontend

e.g. Bootstrap, Foundation, Tailwind CSS, .NET (Blazor, Razor pages).

Dedicated software for production

We combine process knowledge with system programming!

Long-term cooperation with Polish and foreign production plants in the automotive, food, chemical and household appliances industries has allowed us to gain extensive knowledge of production technologies. We know how to effectively obtain data from machines and devices. We know the standards and communication protocols of drivers. We also have the main function blocks for MES systems. We help machine parks implement and develop the idea of Industry 4.0.

What makes us unique

We perfectly know the production technologies.

We implement solutions of our technology partners.

We help identify real challenges and select solutions that meet the needs of a given production facility.

We implement systems from global manufacturers.

We integrate the control systems layer with software supporting business processes, e.g. ERP.

We develop our own software.

We automate data flow directly from machines with IT systems.

Our solutions can use machine learning and AI (artificial intelligence).



Examples of implemented solutions

- Comprehensive knowledge of current processes and cycle times.
- Visualization of the entire production process in real time.
- Access to data from the current production process.
- Simple control of the production process.
- Automatic control and efficient regulation of the production process.
- Acquisition and archiving of data.
- Automatic reporting on the progress of the technological process at specified intervals.
- Automation of production accounting with the ERP system.
- Real-time data exchange with controllers or I/O modules.

Selected business benefits

- Easier decision-making based on reliable and up-to-date information.
- Optimization of production and increasing the efficiency - space for savings and increased profits.
- Faster reactions, e.g. thanks to the alarm function.
- Improving communication between machines, systems and people.
- Automation of data flow between production and business systems.
- Greater security.
- Minimization of errors resulting from e.g. manual data entry.
- Increased production flexibility.

ERP

Enterprise management system



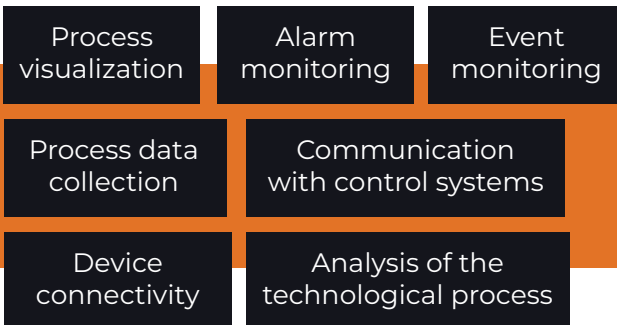
MES

Production management system

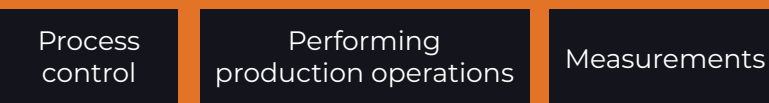


HMI/SCADA

Production supervision system



SYSTEMS CONTROLS DEVICES



MES and SCADA

We combine knowledge of the operation of machines, devices, sensors and IT systems.

We are constantly developing skills related to high-quality, advanced MES and SCADA class systems, e.g.

- Solutions from the largest manufacturers: AVEVA, COPA DATA, Mitsubishi, Siemens.
- Dedicated tools, fully tailored to the individual challenges and needs of a given brand.
- Systems that we develop ourselves in the production plants of our partners.



Reports

Greater security, optimization of the production process, informed business decision making, a way to find savings, greater flexibility and effective adaptation to the changing reality... **there are really a lot of benefits from reporting production processes!**

As experts in recording data from various sources and combining OT and IT we offer reporting of all kinds of production processes. For this purpose, we use e.g. tools such as Microsoft Power BI and Microsoft Reporting Services.

Relational databases

Any solution - regardless of class or function (SCADA, MES, dedicated applications etc.) - generates data. We offer our partners tools for storing and processing relational databases, e.g. Microsoft SQL Server.



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■ solutions for the industry

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