

PROPOINT Group

HORIZON project

Jacek Wylężek

PROPOINT Group, Private Company

Poland | Management Board | Innovation Strategy & Robotics Solutions

PROPOINT Group

- With our human and technical resources, we can operate globally, **supporting the client at every step.**
- Our aim is to achieve **maximum efficiency** in the implemented project.



80% of
engineering staff



600
employees



Gliwice | PL



Gdynia | PL



Rzeszów | PL



Białystok | PL



Bukareszt | RO



Kirchberg | DE

Key facts

more than **550** completed projects

+ 2000 ROBOTS LAUNCHED
EACH YEAR

+ 2000 MANUFACTURED
CONTROL CABINETS IN 2024



Taking production to the next level

> AUTOMATION AND ROBOTISATION | AUTOMOTIVE AND GENERAL INDUSTRY



PROCESS LINES



AUTOMATED WORKSTATIONS



SERVICES POWERED BY OUR
MACHINE PARK

> INDUSTRIAL ELECTRICS



PREFABRICATION OF CONTROL
CABINETS, POWER SUPPLY



DESIGN AND INSTALLATION OF
ELECTRICAL INSTALLATIONS

> INDUSTRIAL PIPELINES



ASSEMBLY AND PRODUCTION
OF INDUSTRIAL PIPELINES



PRE-ASSEMBLY
GROUPS



MECHANICAL INSTALLATIONS

Batteries

APPROACH

- **Technical and manufacturing consulting** for advanced production systems.
- **Simulation and digital validation** of manufacturing and operational processes (digital twin).
- Design of battery **manufacturing processes** and **production flows**.
- **Prototyping capabilities** supported by an extensive **in-house machine park**.
- Implementation of specialized stations, including **leak testing and high-precision laser welding**.
- **Quality control methodologies** for battery production and process optimization.
- **Programming** of industrial robots and PLC-based control systems.
- Design of advanced control architectures and **intuitive HMI interfaces**.
- **Integration** of robotic production lines and workstations for automotive applications.
- Participation in **R&D projects** conducted in collaboration with academic institutions.

We have implemented projects funded by the National Centre for Research and Development (NCBiR):

- Development of energy-efficient, adaptive robotic cells with Industry 4.0 features, dedicated to creating a modular, freely complex and interconnected set of production machines or independent work.
- Development of an innovative service for predicting and providing early warnings of possible production line failures.
- Development of sustainable structural composite materials reinforced with bio-based fibres (**HORIZON project**).

ORGANISATIONAL CAPABILITIES

- **Comprehensive in-house manufacturing and assembly infrastructure** capable of delivering tailor-made, complex hardware.
- Deep industrial **know-how in battery assembly** workflows and automation standards.
- Technical advisory support for the development and **validation of innovative manufacturing** concepts.
- **Virtual and physical testing** and validation of manufacturing solutions.
- **Access to specialized resources**, including robotics and automation experts, as well as production and testing facilities.
- **Alignment with European manufacturing standards** and sustainability objectives.

ADMINISTRATIVE INFORMATION

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2Zero

APPROACH

- Industrial system integration **for zero-emission road transport technologies**.
- **Scaling of battery and CCAM** manufacturing processes.
- Design and optimization of **battery manufacturing and assembly processes**.
- Digital engineering, simulation, virtual commissioning and virtual validation of manufacturing systems (**digital twins**).
- **Advanced prototyping and custom machine construction** supported by an extensive machine park, enabling the construction of virtually any industrial system.
- Design of **safe, reliable PLC and Safety PLC control** architectures.
- Development of advanced automation, robotics and human-machine interfaces (**HMI**).
- Data acquisition and analytics enablement for performance optimization, **AI/ML and lifecycle management** backed by real-time process monitoring.
- Quality assurance and sustainability-oriented **manufacturing optimization**.
- **R&D and innovation projects** with academic and industrial partners.

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ORGANISATIONAL CAPABILITIES

- Industrial leadership in translating **2Zero Research & Innovation results** into deployable manufacturing systems.
- **System engineering and integration capability across battery**, vehicle and automation domains.
- Access to industrial infrastructure, including **production and testing facilities** and an **extensive in-house machine park for independent, full-scale hardware manufacturing**.
- **Strong alignment with EU decarbonisation**, competitiveness and resilience objectives.

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CCAM

APPROACH

- Design and integration of robotic, automated production **systems for CCAM**.
- **Scaling of CCAM technologies** from demonstrators to industrial deployment.
- Delivery of **safe and reliable PLC-based control** architectures tailored for mission-critical mobility infrastructure.
- **SCADA/HMI-driven monitoring** of processes and autonomous fleets.
- Development of **digital twins enabling virtual commissioning, virtual validation** and optimization of complex autonomous workflows before physical deployment.
- **Data-driven** performance optimization and **predictive maintenance**.

ORGANISATIONAL CAPABILITIES

- System engineering and **industrial-grade integration** of complex hardware-software ecosystems.
- Coordination and integration **across multi-partner CCAM ecosystems**.
- **Validation, documentation and deployment support**.
- **Bridging research** results with real-world industrial implementation through **full-cycle in-house manufacturing and assembly**.

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Learn more about
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Thank you