



## Jan Cichosz

IT/OT Systems Architect | Automation Engineer

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📍 Gdynia, Poland 🗓 June 28, 1994

*Automation engineer (OT) with practical experience in power engineering and industrial automation, who evolved towards IT/IoT Systems Architect. I specialize in creating scalable solutions at the intersection of electrical engineering, automation, and IT – designing complete system architecture including electrical design, network configuration, functional specifications, and software documentation. Project delivery from initial client contact through quotation and implementation to maintenance.*

## Key Projects

### Energy Management System for 2000+ Biedronka Stores

Designed from scratch a technical solution for store management (network architecture, communication (MQTT), analytics (Power BI), monitoring (Prometheus + Grafana), performance testing).

- Optimization of store connection process - 200 stores per week
- Optimization of store auditing process - reduced phone calls to nearly zero
- Design of central energy-saving algorithms - 15% reduction in store energy consumption

### Edge Platform

Designed from scratch a backend application responsible for converting building automation protocols to the standard accepted by the central percee system. Deployed and maintained across dozens of projects.

- Made project implementation process independent of dedicated hardware
- Extended integration capabilities with additional protocols
- Accelerated project implementation process

### Plug&Play (PnP) Project

Designed from scratch the implementation processes for the percee system:

- Enabled division of competencies among automation engineers - integration/energy management
- Connected technical model with business model (created architecture modules)
- Standardized project implementation methodology

### Colliers Metering System – 200+ Buildings

- Ensured monitoring and service access for every point
- Accelerated IoT device prefabrication process
- Modeled consumption costs based on TGE data

## Technical Skills

### Backend & Edge

Node.js • TypeScript • JavaScript • Python • Redis • PM2 • Node-Red • Qdrant • InfluxDb

### OT Protocols

MQTT • MODBUS • BACnet • OPC • DALI

### Monitoring & DevOps

Grafana • Prometheus • VictoriaMetrics • Grafana Alloy • Docker

### Frontend & BI

React.js • Power BI • Selenium

### Networking

WireGuard • Netmaker • Routing

### Control Systems

PLC (Wago, Mitsubishi, Beckhoff, Schneider) • Design (ws-Cad, AutoCad)

### Tools

Git • Jira • Confluence

### Other

Driver's license cat. B

## Languages

- **Polish** – native
- **English** – advanced (TOEFL iBT: 97/120)
- **German** – basic

## Education

### Gdańsk University of Technology

10.2013 – 07.2018

*Electrical Engineering, specialization: Power Engineering*  
Master of Science in Engineering

### Scholarships and distinctions:

- 2013–2016: Rector's Scholarship of Gdańsk University of Technology for best students
- 2015–2016: Energa Operator Scholarship for best electrical engineering students

## Interests

Squash • Zouk

## Professional Experience

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### Control Systems Architect

01.2021 – present | Solwena Sp. z o.o.

Gdańsk

- Built from scratch a multi-process edge platform (Node.js, Redis, Docker) with MODBUS, MQTT, BACnet protocol conversion
- Built and maintained complete monitoring stack (Grafana, Prometheus, VictoriaMetrics) for dozens of percee system instances and edge endpoints
- Built and maintained VPN connection architecture (WireGuard + Netmaker)
- Designed and implemented energy-saving algorithms reducing energy consumption by 20-50%
- Created dedicated business applications - automation scripts, application for Biedronka store auditors
- Tech lead of PnP project – standardization of implementation process
- Technical support for automation engineers during project implementation
- Created guidelines for DEV team (Jira, Confluence)
- Technical support for sales team - direct client contact

### Automation Engineer

01.2019 – 01.2021 | Solwena

Gdańsk

- Design and programming of energy management systems (PLC: Wago, Mitsubishi, Beckhoff)
- Technical inspections and quotation preparation
- Automation of implementation processes (VBA)

### Automation Engineer

09.2017 – 01.2019 | Elsa

Gdańsk

- Design of BMS systems - WsCad + AutoCad
- PLC controller programming - Schneider Electric EBO

### Automation Engineer

03.2017 – 09.2017 | Enamor

Gdynia

- EMOS system programming - preparation for SAT and FAT certification

## Other Projects

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Energy management system for 30+ buildings in Sopot • X-kom headquarters (BMS) • SHARP TV factory (BMS) • SCANIA workshops (BMS) • Forum Gdańsk (BMS) • Non-invasive Medicine Center Gdańsk (BMS) • Automation project for DAKO Lublin polygeneration system