



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 perceiver 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 perceiver 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

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 perciee 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

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