

# Best Technology Talent For Companies Around The World



## Dawid

SCADA Engineer

### Summary

Senior MES, SCADA, and PLC Engineer with over 10 years of professional experience, including freelance and contract work across multiple industries (pharmaceutical, manufacturing, food/feed, metallurgical). Expert in Ignition SCADA, Siemens PLCs (S7-1200, S7-1500, S300 series), and integration with MES, ERP, and HMI systems. Experienced in industrial digitalization, data aggregation, production analytics, and process optimization. Skilled in designing, commissioning, and troubleshooting complex distributed automation systems, both on-site and remotely.

#### TECHNICAL SKILLS:

- SCADA / MES: Ignition (Gold Certificate) – Expert, iFix – Basics
- PLC Programming: Siemens S7-1200 / S7-1500 / S300, Allen-Bradley – Basics, Phoenix Contact, B&R – Basics
- Jython (Python-like), T-SQL (MS SQL), PostgreSQL
- Java – Basics, JavaScript, PHP, HTML, CSS – Basic
- Distributed industrial systems (IT/OT integration)
- Greenfield system design
- Data sequencing & structured data flow
- Unified Namespace (ISA-95, MQTT)
- ERP / SAP integrations
- AI-assisted infrastructure troubleshooting (practical usage & integration)

# Professional Career

## MES / SCADA / PLC / Digitalization Engineer

August 2022 – Present | Ostrów Wielkopolski, Poland

### Project Info:

1. Ignition-based MES solution allowing creation and management of production recipes stored in a database and transferred to PLCs. Production data read back from PLCs and used for reporting and traceability. Manual workflows by design (no SAP integration).
2. Feed Mill. Ignition + MSSQL-based MES system covering order management, production planning (cross-contamination matrix), WMS integration, inventory, and document printing. Integrated with ERP (database-level) and SCADA (Web Services).
3. SCADA system using Siemens S7-1X00 PLCs (~500 DO, 1100 DI, ~200 engines). Process control, alarms, reporting, and MES communication.
4. Pharmaceutical Industry. Ignition-based data aggregation platform collecting data from multiple PLCs and databases, structured according to ISA-95 and shared via MQTT as a single source of truth.
5. Glass Filling Line – Instant Coffee. Control system based on Siemens S7-1500 PLC and KTP-1200 HMI for production tracking and process control.

### Responsibilities:

- Design and delivery of Ignition-based MES and SCADA systems, including backend logic, frontend visualization, testing, deployment, and commissioning
- Development of process control systems where PLCs are actively controlled (not read-only), requiring on-site commissioning and close interaction with physical equipment
- Integration of MES/SCADA systems with ERP-level systems (database-based integrations), positioning solutions at a higher architectural level than classic shop-floor SCADA
- Strong understanding of IT–OT boundaries, ensuring safe and reliable interaction between software platforms and physical production systems
- Extensive hands-on experience with Ignition modules, gained across many different customer use cases as a freelancer
- Work with MS SQL Server and PostgreSQL as core data storage for production data, analytics, and reporting

# Full Stack Developer

April 2012 – August 2022 | Ostrów Wielkopolski, Poland

## Project Info:

1. LC-Controlled Production Lines. Designed and implemented PLC logic for industrial production lines, including machine states, interlocks, alarms, and quality control (QC) mechanisms. Performed on-site commissioning, testing, and validation to ensure safe and reliable operation in live production environments.
2. MES / SCADA Systems with Device Control. Developed SCADA and MES solutions using Ignition SCADA, where systems were responsible not only for data acquisition but also for active control of devices. Implemented operator panels, manual overrides, process workflows, and alarm handling logic.
3. ERP–SCADA Integration. Delivered automation solutions integrated with ERP systems, enabling higher-level production visibility and operational reporting. Implemented data exchange between PLCs, SCADA, and enterprise systems to support planning, quality tracking, and decision-making.
4. Legacy System Support and Modernization. Maintained and enhanced legacy Siemens-based automation systems (including S7-300 and environments running on Windows XP, operational since ~2006). Safely applied changes in high-risk environments where system stability was critical.
5. PLC Platform Migration and Standardization. Participated in the transition from mixed PLC platforms (including Phoenix Contact PLCs) to a fully Siemens-based ecosystem (S7-1200, S7-1500). Supported standardization of automation practices and system architectures across production facilities.
6. On-Site Commissioning and IT/OT Integration. Worked directly on production sites during commissioning phases to connect physical equipment with IT systems. Ensured reliable communication between PLCs, SCADA, databases, and enterprise infrastructure, acting as a technical bridge between engineering and IT teams.

## Responsibilities:

- Development, configuration, and support of MES, SCADA, and PLC systems in industrial production environments
- PLC programming and on-site commissioning, including direct control of industrial equipment and QC-related logic
- Design of SCADA systems beyond visualization, implementing control panels, manual/automatic modes, alarms, and interlocks
- Integration of shop-floor automation with ERP and higher-level business systems, enabling production tracking and reporting

- Collaboration with IT and OT teams to bridge physical production systems with enterprise infrastructure
- Maintenance, troubleshooting, and modernization of legacy automation systems with minimal production risk
- Participation in system upgrades and migrations, ensuring continuity of operations

## Education

**2008 – 2012**

Opole University of Technology  
Bachelor's Degree in Information Technology

Certificates:

- 2019 Ignition Gold 8.1 Certification

## Foreign Languages Skills

**English:** Upper-Intermediate

**Polish:** Native