Roman Deyneko

Controls & Automation Engineer | IMS & Industrial Systems Architect | R&D Machine Prototyping Lead

Przechlewo, Pomorskie, Poland · Dual PL / UA Citizen · Full EU Work Rights · Open to Relocation / Hybrid / Remote (EU)

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Controls & Industrial Systems Engineer fusing automated machine prototyping (Siemens S7, Beckhoff TwinCAT, Structured Text IEC 61131-3, Factory I/O) with IMS & SCADA architecture (Ignition, MES, OPC UA, MQTT, Python), vision systems (OpenCV, Sick), and statistical quality systems (MSA, Gage R&R, SPC). Documented ROI: -40% micro-downtime, 71.1k PLN/yr gas savings, and zero-loss telemetry streams.

+33%	**-40%**	**Factory I/O**	**SCADA / MES**	**<10ms**	**493 ECTS**
Line Throughput	Downtime Cut	Virtual Commissioning	Industrial Data	Mesh Latency	Triple Degree
71.1k PLN/yr Gas Saved	Siemens S7 (ST Logic)	TwinCAT, CAD & UR-5	Ignition, OPC UA & MQTT	ESP32-C6 / Edge IPC	M.Sc. + 2x B.Sc. PANS

COMMERCIAL ENGINEERING EXPERIENCE & PLANT OPERATIONS

Industrial Automation & Commissioning Engineer — 2025 – Present

Goodvalley Agro-Industrial Complex — Przechlewo, Poland

- Commissioned and modernized industrial food processing machinery, packaging lines, and high-speed conveyors.
- Refactored Siemens S7 (TIA Portal) PLC software logic: eliminated sensor lags, kinematic dead times, and cut downtime by -40%.
- Architected and deployed plant MES platform, workTime WFM dispatching, and distributed ESP-NOW wireless mesh telemetry nodes.
- Automated data acquisition and telemetry from industrial energy meters; developed custom warehouse software for parts/tool picking.

Industrial Automation & Embedded Engineer — 2024 – 2025

Colorland / Industrial Systems Engineering — Rzeszów & Poland

- Engineered 3D production line simulations in Factory I/O with Siemens PLCSIM, Modbus TCP and OPC UA for virtual commissioning.
- Developed OpenCV computer vision pipelines for industrial image analysis & inspection; integrated UR-5 with Sick vision (+35%).
- Designed custom hardware interface modules for machine integration; reverse-engineered internal machine data protocols.
- Operated CNC laser cutting with nesting optimization; mechanical design in AutoCAD, Fusion 360, SolidWorks, EPLAN.

Lead Automation Engineer (Główny Automatyk) — 2023 – 2024

Fabryka Ciastek San-Pajda — Jarosław, Poland

- Modernized coordinate dosing algorithm for meringue baking: boosted tray capacity by +33%, saving 71,124 PLN/year in gas fuel.
- Deployed SCADA/MES turbomixer multi-machine integration in 57 days (25.4k PLN budget); supervised UR plant maintenance.

Android & Embedded Hardware Developer / Control Cabinets — 2021 – 2024

MostCentrService, KasaMobile & ZUT Kunzek — Poland & Ukraine

- Developed KasaMobile & SmartShop Android apps (Kotlin, Jetpack Compose, Clean Architecture, Hilt, Room, Coroutines/Flow).
- Engineered Bluetooth (BLE/SPP) & RS-232 protocols for Posnet, Novitus & Elzab fiscal printers, industrial scales, and ML Kit scanning.
- Prefabricated industrial control cabinets (szafy sterownicze: PLCs, VFDs, safety relays) and executed EPLAN I/O loop checks.

KEY INDUSTRIAL PROJECTS & PRODUCTION DELIVERABLES

San-Pajda Turbomixer & Oven Energy Optimization: SCADA linking 2 machines in 57 days (25.4k PLN); coordinate dispensing gave +33% oven capacity & 71.1k PLN/yr verified gas savings.

Colorland Virtual Commissioning & Laser CNC: Factory I/O simulations with Modbus TCP/PLCSIM; CNC laser cutting with nesting optimization; UR-5 + Sick vision sorting (+35%).

Industrial MES & Digital Twin Platform: Python (FastAPI) + React 19 Canvas 60 FPS shopfloor telemetry; Order -> MES -> Edge pipeline (SLA ≤12h); Zero Punch Loss.

MostCentrService & KasaMobile Hardware POS: Android (Kotlin/Compose) app communicating via BLE/SPP & RS-232 with Posnet/Novitus/Elzab fiscal printers and industrial scales.

CORE COMPETENCIES MATRIX (ATS KEYWORD GROUPING)

Controls & PLC:	Siemens S7 (TIA Portal), Beckhoff (TwinCAT), Structured Text (IEC 61131-3), OpenCV / Sick Vision, Factory I/O, PROFINET, Modbus RTU/TCP, UR-5
IMS & SCADA:	Ignition SCADA, MES Integration, OPC UA, MQTT, InfluxDB / PostgreSQL, Python (FastAPI, Asyncio), REST APIs, Digital Twins
Hardware & Edge:	ESP32-C6 (ESP-NOW Mesh <10ms), STM32, C/C++ (PlatformIO), FreeRTOS, Control Cabinets (VFD, Safety), CAD/CAM (SolidWorks, EPLAN)
Testing & Quality:	Python / C# Instrument Interfacing (RS-232, GPIB, USB), MSA (Gage R&R), SPC, Android SDK (Kotlin POS), ISO Auditing (9001/14001)
Management & R&D:	M.Sc. Management (120 ECTS), CAPEX & R&D Lifecycle, Operations Research, Agile / Scrum (Jira), Lean Six Sigma & OEE (+33%)

ACADEMIC CREDENTIALS, TARGET ALIGNMENT & TERMS

Education: Mgr (M.Sc.) Management (120 ECTS) · Inż. (B.Sc.) Computer Science (213 ECTS) · Inż. (B.Sc.) Automation & Electronics (160 ECTS) — PANS (493 ECTS Total, 1,880h+ Practicum)

Target Roles: Controls Engineer · IMS Engineer · R&D Machine Prototyping Lead · Automation Team Supervisor · MSI Measurement Systems Engineer

Compensation: Open to Company Offers (UoP / B2B) · Availability: Immediate / 2 Weeks · Location: Poland (Open to Relocation / Hybrid / Remote)

I hereby consent to my personal data being processed for the purpose of recruitment processes in accordance with the EU General Data Protection Regulation (GDPR / RODO 2016/679).