Andrii Melashchenko

Senior Principal Architect · Agentic AI, Data, Cloud & Industrial Edge

Agentic AI Architect: agent systems on AWS Bedrock with Claude models and MCP tools, with per-agent evaluation sets that gate releases, per-invocation tool-call logging into an audit table, and human-in-the-loop oversight. At Belden since 2023.

> **3 direct reports; 9 hires into 2 teams. Earlier, at The Clinician, hired, built and managed a 15-person engineering team. Belden CEO Innovation Award, Q4 2024 (Digital Coworker).**

TOP RESULT BY DOMAIN

Agentic AI Project 2024–present	**Architect of the Digital Coworker, AI fault diagnosis for industrial (OT) networks. On documented support cases: root-cause diagnosis within minutes of receiving the device data.** Digital Coworker: in customer beta (2026). Three agents on AWS Bedrock (Claude, MCP), publicly demonstrated at SPS 2025. MRP agent: 2nd place, Produkte des Jahres 2026. Owned decisions: read-only below the model; domain-separated agents with own MCP tool surfaces; Iceberg + S3 Tables, not a vector store; hosted now, on-premises next
Evaluation & Oversight Project 2024–present	**Offline evaluation on 10 documented support cases: 8 correct root-cause diagnoses; misses lacked the required device data.** Read-only enforced below the model; a human applies every fix. Oversight designed with reference to Art. 14(4)(c)-(d), invocation logging in the spirit of Art. 12, adopted by design regardless of risk classification
Enterprise Architecture 2023–present	**Led the architecture of the container-workload stack in Belden's device operating-system software, used across several product families.** Method: TOGAF ADM, architecture decision records, capability mapping; 10+ business units
Edge & Open Standards 2024–present	**Authored the Compose-over-OCI packaging contract for Margo, a Linux Foundation standard with 40+ member organisations; approved by its voting members, July 2026.** In Preview Release 3 (September 2026). Belden's Margo representative since 2024, appointed by the group CTO
Data 2025	**Designed and built the Network Lakehouse on Apache Iceberg and AWS S3 Tables: the context and audit data platform for the agents (2025).**
Cloud 2017–present	**AWS-native agent system at Belden (Bedrock, S3 Tables). Earlier: serverless health platform authorised through the Singapore MoH firewall; platform-wide: 150 hospitals, millions of patients.** CDK, event-driven serverless, multi-account security, FinOps · AWS Software Partner of the Year NZ 2022 (company award)
Trust & Standards 2011–2018	**Chaired sub-committee PK-22 (2011–2018), which adopted 101 international standards (ISO/IEC, ETSI, CEN) as Ukrainian national standards (DSTU).** Expert in the parliamentary working group on the Law of Ukraine On Electronic Trust Services; Ukrainian national delegate to ISO/IEC JTC 1

CAREER

2023–present · Belden, Stuttgart
Senior Principal – Lead Architect for Enterprise Software and Applications

2017–2023 · The Clinician, Auckland
Cloud Solution Architect & Director of Engineering

2008–2016 · V.M. Glushkov Institute of Cybernetics, NAS of Ukraine
Researcher

2003–2008 · Banks, Kyiv
Data Architect

CREDENTIALS

10 AWS certifications, incl. Data Engineer – Associate, Solutions Architect – Professional, AI Practitioner, Security

AWS Community Builder since 2023

EDUCATION

Doctorate (Candidate of Sciences), Computer Science
Glushkov Institute of Cybernetics (NASU), 2011
Thesis: e-signature interoperability.
Master's: Igor Sikorsky Kyiv Polytechnic, 2007

KEY FACTS

Location
Stuttgart, Germany

Languages
Ukrainian Native · English C1 · German A1 (B1 course in progress, target 2027) · Working language English

Work authorisation
Right to work in Germany

CONTACT

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