

# NASR KASRIN (DR. RER. NAT.)

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Solution architect who makes engineering, test, and product data ready to share across organizational boundaries - documented, governed, and exportable to the standards customers and regulators ask for (ODCS/ODPS, DCAT, Catena-X, EU Data Act) - without moving the source data. 15 years where systems, data, and teams intersect: enterprise platforms (Lead Architect at PUMA), six years inside a €3.5M multi-partner EU aerospace/manufacturing consortium solving cross-organization data sharing hands-on, and a PhD (Bamberg, 2023) in federated inter-organizational data architecture. I deliver runnable systems, not slide decks.

## Work Experience

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### Independent Consultant - Solution Architecture & Data Strategy

2025 – Present

*Self-employed - Germany*

- Building a data-sharing readiness practice for manufacturers and suppliers: turning engineering, test, and product-data handoffs into documented, policy-bound, lineage-aware exchanges aligned to ODCS/ODPS, DCAT, PROV/OpenLineage, and Catena-X / EU Data Act requirements - with source data staying in place.
- Developing a delivery toolkit that drafts data-product descriptors and cross-organization lineage from existing databases, APIs, and files, with human-in-the-loop (LLM-assisted) validation.
- Advised Lomisoft (early-stage healthcare SaaS) on solution architecture and technology strategy; designed a modular, human-in-the-loop AI architecture that lets prototypes evolve into production without rework.
- Ran pilot-user focus groups and fed findings back into the technical design.

### Lead Solution Architect

2024 – 2025

*PUMA SE - Global E-commerce Engineering*

- Led two engineering teams (10 engineers, 2 leads); ran hiring, onboarding, and coaching that improved velocity and retention.
- Cut 30% of critical tech debt via a structured effort-value program (CI/CD stabilization, automated testing, reliability), producing a multi-quarter roadmap adopted across teams.
- Guided a cross-team optimization initiative that improved [PUMA.com](http://PUMA.com) performance by 20% in two quarters.
- Resolved a 90%-order-loss production outage within 24h; established post-mortem and incident practices that cut MTTR by 40%.
- Partnered with product, design, and business stakeholders to shape the technical solution architecture roadmap under growing global traffic.
- Piloted AI/LLM-tooling for productivity and code-quality gains.

### Founder-in-Exploration / Doctoral Researcher

2022 – 2023

*Independent - Germany*

- Completed PhD (Dr. rer. nat., Bamberg) on federated inter-organizational data sharing - describing, governing, and exchanging data across organizations without integrating their systems; the problem space now addressed by Catena-X and the EU Data Act.
- Co-founded an early-stage B2B healthtech venture; owned team setup, product roadmap, and technical strategy.
- Ran market assessment and feasibility studies on commercializing the research IP; produced go-to-market scenarios.

### Research Associate - Team Lead, Architect, Data Solutions Engineer

2015 – 2021

*University of Bamberg - EU Aerospace & Manufacturing Consortium Project (€3.5M, Horizon2020)*

- Designed and built an inter-organizational data-sharing system for high-value composites manufacturing - exchanging simulation, test, and measurement data across 8 partners in 5 countries with different tools, conventions, and confidentiality scopes; contributed hands-on to 4 of 6 components.
- Directed delivery of the €3.5M consortium project; owned roadmap, budget, and milestones across multiple European partners.
- Led a cross-functional team of 4 engineers and researchers; ran hiring, onboarding, and mentoring.
- Established team-wide standards for architecture, scalability, security, and reliability.
- Field-tested the federated data-sharing model across three domains (manufacturing, IoT/agriculture, crowd data) - the basis of the later PhD.

### Dean / Lecturer

2013 - 2015

*University of Technology Twintech, Yemen*

- Led the IT and Multimedia faculties, reporting to the university president. Taught several technology courses.

### R&D Engineer / Team Lead - AI & Mobile

2011 – 2014

*TayaIT - Egypt*

- Led a 3-engineer team; delivered AI players that lifted game ratings from 3.0 → 4.5/5.
- Directed iOS app development; achieved 10x early-stage user engagement growth.
- Advised CEO on technical and operational decisions; saved an estimated 10 person-months.

## Skills

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<b>Architecture &amp; Strategy</b>	Solution & integration architecture · Federated and inter-organizational data architecture · Data interoperability · AI/ML system integration · Technical roadmapping
<b>Data</b>	Metadata · Data governance · Domain modeling · Standardization · Data engineering · SQL/NoSQL (PostgreSQL, MySQL, MongoDB, Neo4j)
<b>Engineering Practice Stack</b>	CI/CD · Reliability engineering · Incident response · Tech-debt programs · Agile delivery
<b>Leadership</b>	Python · REST APIs · Node.js · Microservices · GCP
<b>Languages</b>	Hiring · Coaching · Cross-functional alignment · Stakeholder management
	English (Fluent) · German (B1/B2)

## Education

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### University of Bamberg - Dr. rer. nat., 2023

*Faculty of Information Systems and Applied Computer Sciences. Dissertation: The Basin Network - A Model for Data Sharing and Exchange.*

### German University in Cairo

*M.Sc., Artificial Intelligence & Robotics B.Sc., Computer Science & Engineering*