Hasan Sinan Alioglu

CTO · Head of Software & IoT

Sovereign data platforms · connected vehicles · industrial IoT and edge · AI-driven engineering

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Open to CTO / Head of Software / Head of IoT roles · EU work authorisation · remote, hybrid or EU relocation

Summary

I build platforms and stay to run them. At MHP (Porsche's IT consultancy) I created Data Core X, the managed Catena-X connector 40+ companies use, and hired its 20+ engineers; for a 3,000-engineer automated-driving programme I led systems-engineering tooling, halving CI/CD and cutting a 15-minute requirements edit to under a minute. Now: the cloud-native foundation and AI-driven delivery process for an EU logistics leader's 300+ SAP applications. Earlier: a tax platform filing close to a million declarations a season, and an IoT company I founded.

20+ years building and running platforms

40+ companies on a product I built from zero

3,000+ engineers served by my team's tooling

~1M tax declarations filed in one season

Selected achievements

- **Cut a 15-minute requirements edit to under a minute for a 3,000-engineer programme.** A web editor over 100,000+ automated-driving requirements, built with AI agents in the loop; every change a reviewed pull request. Also halved CI/CD time.
- **Created a SaaS product from zero and took it to 40+ companies.** Data Core X, the managed Catena-X connector: architecture, core service, pricing, three certifications and 20+ hires; Volkswagen Group connects suppliers through it.
- **Carried a tax-filing platform through peak season at over one filing per second.** Architecture behind the WISO Steuer white-label app: close to 1 million declarations in one season, €5M+ revenue; led up to 25 engineers in 6 squads.
- **Built IoT products from kernel to cloud, then sold one.** Custom Linux kernel for an ATM security device; founded GKW Technologies and sold its digital-signage device and fleet platform.
- **Ran infrastructure before it was cloud.** Built a data centre from the racks up and a self-service hosting portal in 2004; led the platform team at a top-ten hosting provider.

Experience

Senior Tech Lead · MHP – A Porsche Company (MHP Management- und IT-Beratung GmbH)

Cologne, Germany · 2023 – present

Porsche AG's IT consultancy (about 4,500 people; TCS acquisition announced August 2026); five engagements, newest first.

Cloud-native foundation, EU logistics market leader — lead architect, ongoing

- Designed the cloud-native target platform and reference service for migrating 300+ legacy SAP applications; decisions and plans kept in the repository as code.
- Set up the AI-driven, human-in-the-loop delivery process (agent skills, quality gates, review flow); first migration wave November 2026.

Data Core X — creator and product lead; advisor since 2026

Scope: 40+ companies onboarded · 20+ engineers hired · three Catena-X certifications · AWS (EU) and STACKIT · Cofinity-X and STACKIT marketplaces

- Built the service from nothing: hosted and operated EDC connectors with certificate management, an SAP module, usage-policy enforcement and multi-organisation dashboards on AWS (EU) and STACKIT.
- Designed the architecture, wrote the core service, set the pricing (from €100/month), passed three Catena-X certifications, hired 20+ engineers and led the certificate-management and SAP squads.
- **40+ companies onboarded; Volkswagen Group connects suppliers through it.** Sold on the Cofinity-X and STACKIT marketplaces; provisioning in minutes, typical go-live in about six weeks.

Systems-engineering tooling, CARIAD–Bosch Automated Driving Alliance — tech lead · until 2026

- Led the systems-engineering tooling team of the CARIAD–Bosch Automated Driving Alliance (3,000+ engineers building the ADAS stack for all Volkswagen Group brands).
- **Cut a 15-minute requirements edit to under a minute.** Built, with AI agents in the loop, a web requirements editor over 100,000+ sphinx-needs artifacts: instant search, guided editing with live validation, every change a reviewed pull request; in production at v1.1.7.

- Halved CI/CD time (GitHub Actions, Bazel); wrote a Rust search backend across every project, answering in under 50 ms.

Digital vehicle twin (Volkswagen Group) — architect and tech lead

- Architecture and MVP core of Volkswagen Group's digital vehicle twin: every Group data source combined into one graph database behind an access-controlled model of each vehicle.
- Across MHP: career lead for seven consultants and engineers.

Senior Principal Software Engineer & Technical Lead · Taxy.io (Taxy.io GmbH)

`Cologne, Germany · 2021 – 2023`

AI-driven tax-tech scale-up (RWTH Aachen spin-off; acquired by Visma 2025), about 40 people.

- **Close to 1 million declarations filed in one peak season, at over one ELSTER submission per second,** on the auto-scaling microservice architecture I designed (FastAPI, PostgreSQL, Azure Service Bus; Terraform on Azure).
- Designed and shipped the white-label app for Buhl's WISO Steuer, Germany's largest consumer tax software (€5M+ revenue).
- Technical lead for up to 25 engineers in 6 squads: architecture standards, review and release process.

Senior Software Engineer & Architect · NTT DATA Business Solutions Turkey

`Istanbul, Turkey · 2020 – 2021`

- Backend of a Bluetooth-wristband COVID-19 contact-tracing system for one of Turkey's 100 largest companies.
- Built an NVIDIA Jetson edge video-analytics product (heat maps, paths, people counting) for standard IP cameras.

Founder, Software Architect · GKW Technologies

`Ankara, Turkey and Berlin, Germany · 2016 – 2021`

IoT and software company I founded and ran (2–10 people).

- Built the IoT product line end to end: smart-metering gateways for a water utility, science-centre devices, a digital-signage device with a Kubernetes fleet platform; sold the signage product.

Senior Software Engineer & Architect · Mert Software

`Bursa, Turkey · 2012 – 2015`

- ATM security device (15+ sensors, custom-compiled Linux kernel, remote programming language) and a production-line device for Turkey's leading car maker.

Earlier career · Turkey, 2003 – 2012

Senior Software Engineer, Nette Interactive (2011 – 2012) · Senior Software Engineer & Systems Administrator, Karegen Internet (2009 – 2011) · Senior Software Engineer, TurkTicaret.Net (2006 – 2008) · Software Engineer, Turkos Informatics (2005 – 2006) · Systems and software engineer, Karegen Internet (2004) · Intern, software engineering, Pleksus Informatics (2003)

Open source & standards

- **Catena-X Industry Core Committee** — Committee member, 2024 – present. The committee owns the base standards for identifying parts and vehicles as digital twins across the Catena-X network (1,000+ companies).
- **sphinx-ultra** (github.com/salioglu/sphinx-ultra) — Pre-1.0 Rust builder for very large Sphinx projects (881-case differential suite vs Sphinx 9.1); 11 releases, 1.5k crates.io downloads; built with Claude Code agents under review.

Skills

Competencies: technical leadership of multi-team programmes · product creation, architecture to pricing and go-to-market · data sovereignty and data spaces (Catena-X, EDC) · digital twins and graph data models · industrial IoT and edge devices · embedded Linux · cloud platform engineering (AWS, Azure, STACKIT, Kubernetes, Terraform) · AI-driven SDLC (coding agents, skills, quality gates) · requirements engineering and doc-as-code · people development

Stack: Python (FastAPI, Django) · Rust · Go · TypeScript (React, Next.js) · PostgreSQL, Redis, Kafka, Elasticsearch · Docker, Kubernetes, Terraform, GitHub Actions, Bazel · MQTT, RabbitMQ · NVIDIA Jetson

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Education & languages

B.Sc. Electrical and Electronics Engineering, Uludağ University, 2003 – 2011 · Erasmus+ exchange year, University of Trieste, 2010 – 2011

Languages: Turkish — native · English — C2, full professional · German — A2