



Patrick Leegte

Industrial AI Consultant · Asset Performance & Automation Architect

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Available immediately

PROFESSIONAL SUMMARY

18+ years of hands-on experience across CNC machining, laser cladding, welding engineering, thermal spraying, ERP implementation, process automation, and industrial management — combined with proven capability to design, build, and deploy AI systems, multi-agent orchestration platforms, predictive maintenance solutions, and custom software for asset-intensive industries.

Founder of VoidTech Solutions OÜ, delivering practical automation and digital transformation for manufacturing, energy, maritime, and maintenance companies. Delivered projects for Shell, Wärtsilä, and other major industrial clients. I bring what most technology consultants cannot: fluency on both the factory floor and in the software stack.

24+ professional certifications including European Thermal Spraying Specialist, PLC Programming (Allen Bradley), and CAD/CAM. Experienced in technical presales, solution scoping, stakeholder engagement, technical training, and end-to-end project delivery.

CORE COMPETENCIES

AI, ML & Intelligent Systems	Software Engineering	Industrial & Domain
Multi-agent architecture	Laravel / PHP (advanced)	Manufacturing & MRO operations
LLM integration & RAG	Python	Asset performance management
Predictive maintenance	React / JavaScript	CNC machining & CAD/CAM
Anomaly detection	PostgreSQL & pgvector	Laser cladding & hardfacing
Workflow automation (n8n)	Docker, Nginx, Traefik	Welding (MIG, TIG, electrode)
Responsible AI	REST API & microservices	Thermal spraying & PTA welding
AI strategy & roadmapping	WebSocket / real-time	Mechanical engineering
	Linux / VPS / Cloud	ERP (SAP, Exact, Prodist)
		WMS implementation
		PLC (Allen Bradley 1-3)
		DCS / SCADA / IIoT

PROFESSIONAL EXPERIENCE

Founder & Industrial AI Consultant

2024 - Present

VoidTech Solutions OÜ · Estonia (Remote)

AI consultancy for manufacturing, logistics, energy, maritime, and ERP-intensive companies.

- **ERP:** Custom ERP for Hornet Laser Cladding — Laravel, PostgreSQL, Docker. BOM management, quoting engine, spare parts cataloguing, branded PDF output.
- **AI architecture:** Multi-agent platform (VoidOS) with orchestration, task planning, context management, memory strategies, and role-based guardrails. Four agents coordinated via WebSocket.
- **Data & search:** AI product recommendation system using pgvector, RAG pipelines, and WooCommerce integration for industrial wholesale.
- **Infrastructure:** Self-hosted stack: Docker, Coolify, Traefik, Mailcow, PostgreSQL, Nginx on Linux VPS. Modular SaaS with isolated databases and SSO.
- **Consulting:** Digital transformation advisory — process mapping, AI readiness assessments, implementation roadmaps.

Project Lead / R&D Engineer

2022 - 2024

Lagersmit Sealing Solutions B.V. · Netherlands — Maritime & offshore sealing

- **ERP / WMS:** Led end-to-end WMS implementation and ERP integration — requirements through go-live. Zero

production downtime.

- **Projects:** Warehouse relocation (phased demolition/rebuild during live ops). Assembly line upgrade with improved material flow.
- **R&D:** Designed, prototyped, and tested new industrial seal products from concept to production approval.
- **Process automation:** Strategic plans for automating key business processes. Budget and stakeholder advisory.

Technical Manager

2018 – 2022

De Zwaan Metaal B.V. · Netherlands — Precision machining, repair & wear protection

- **Digital transformation:** Full ERP restructure (Prodist); digitised all paper-based workflows.
- **ERP:** Standardised article and BOM structures — measurably reduced errors and lead times.
- **Operations:** Managed production, quality control, and end-to-end customer project delivery.

Sales Engineer — Casting & Forging

2017 – 2018

Elcee Holland B.V. · Netherlands

- Technical B2B sales and procurement with international manufacturers; 3D model optimisation for cast and forged components.

Application Specialist — Repair & Wear Solutions

2014 – 2017

Messer Eutectic Castolin Benelux · Netherlands

- Project sales of welding, wear protection, and thermal spray solutions to Shell, Wärtsilä, FN Steel.
- Delivered 2-day hands-on training programmes in welding, thermal spraying, hardfacing, and PTA.
- Managed full project lifecycle: procedure development, transport, execution, client sign-off.

Founder & Engineer

2015 – 2022

Lenomi · Netherlands

- B2B e-commerce for industrial tooling. Sales, marketing, international procurement, engineering from own workshop.

Earlier Experience (2006–2014)

- **Eriks B.V.** — Product Specialist Machining (2011–2013). Tooling advisory, tenders, SAP product data.
- **Stork Gears & Services** — Laser Cladding Specialist (2009–2011). R&D, co-built mobile robot cell for rotating equipment.
- **DL Metaal / Freelance** — Machinist & Flame Spray (2007–2009). Brush HMA (power gen rotors), Van Krimpen (turning Ø1200mm), Motormaas (propeller shafts).
- **Karat Holtan** — Sales Representative Tooling (2013–2014). Cold acquisition.
- **IHC Smith Kinderdijk** — CNC Apprentice (2006–2008). BBL in machining for offshore & dredging.

SELECTED PROJECTS

Industrial ERP Platform — Hornet Laser Cladding

Laravel · PostgreSQL · Docker · PHP 8.3

Custom ERP with BOM management, quote engine (branded PDF), spare parts cataloguing (150+ items), client portal. Sole architect and developer.

VoidOS — Multi-Agent AI Platform

Laravel · React · PostgreSQL · n8n · Docker · WebSocket

Four AI agents with orchestration layer, task planning, context management, memory strategies, role-based access. Modular SaaS with isolated databases and SSO.

WMS + ERP Integration — Lagersmit

WMS · ERP · Process redesign

End-to-end implementation for maritime/offshore sealing manufacturer. Warehouse relocation with zero downtime.

Mobile Laser Cladding Robot Cell — Stork

Robotics · Inventor 3D · R&D

Co-developed mobile robot cell for on-site laser cladding on rotating equipment. Material testing and process R&D.

AI Product Recommendation System

PostgreSQL · pgvector · WooCommerce · Python

RAG-based conversational product search for industrial wholesale. Vector embeddings for technical product matching.

EDUCATION & CERTIFICATIONS

Education

Mechanical Engineering (part-time) — Hogeschool Rotterdam, 2011
CNC Machining (BBL) — IHC / STC, 2006
Shipping & Transport — STC Rotterdam, 2005

Technical Certifications

European Thermal Spraying Specialist (2019) · PLC Programming 1-3 (2021) · hyperMILL CAD/CAM (2021) · Brazing, Spray & Fuse, PTA Welding (2015) · Welding Robot Programming (2009) · VCA Full Safety (2016) · EU Drone Pilot EASA A1/A3 (2024)

Professional Development

Agile, Scrum & Kanban (2024) · Leadership & Management (2023) · NIMA / SMA-A Sales (2010)

ADDITIONAL

Languages: Dutch (native), English (C1)

Key clients: Shell · Wärtsilä · FN Steel · Marflex · Lagersmit · Brush HMA · IHC

Personal: Married, 3 children. 16-month world trip (Asia & Australia, 2024-2025)

Interests: FPV drones, 3D printing, CNC machining, trading systems