

Patrick Leegte

Industrial AI Consultant · Asset performance & automation architect. *From CNC floor to AI stack* — 18+ years building, optimising and automating asset-intensive operations.

CONTACT

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Netherlands



2006 – 2017

Industrial Foundation

Hands-on across CNC machining, laser cladding, welding engineering, thermal spraying and technical sales. Built the floor-level intuition most consultants lack.

2018 – 2024

Process Optimisation

Technical Manager, then Project Lead. ERP & WMS go-lives, BOM standardisation, paper-to-digital workflows, full process automation roadmaps.

2024 – now

AI Integration

Founder of VoidTech Solutions OÜ. Multi-agent platforms, RAG, predictive maintenance and workflow automation — applied to real industrial workflows.

2026

01 PROFILE

Industrial AI Consultant with **18+ years in asset-intensive manufacturing**. First decade hands-on across CNC machining, laser cladding, welding and thermal spraying — building the floor-level intuition most consultants lack. **From 2018 onwards** focused on process optimisation, ERP/WMS implementation and digital transformation as Technical Manager (De Zwaan Metaal) and Project Lead (Lagersmit Sealing Solutions). *Since*

2024, founder of VoidTech Solutions OÜ — applying that same process foundation to AI: multi-agent platforms, RAG pipelines, predictive maintenance and workflow automation, built for real industrial workflows rather than slide-deck theory. I bring what most technology consultants cannot: fluency on both the factory floor and the software stack.

02 CORE COMPETENCIES – organised by career phase

PHASE 01

Industrial Foundation

2006 – 2017 · hands-on

- CNC machining & CAD/CAM (hyperMILL)
- Laser cladding & hardfacing
- Welding — MIG, TIG, electrode, robot
- Thermal spraying & PTA welding
- Mechanical engineering & 3D design
- PLC programming (Allen Bradley 1–3)
- DCS / SCADA / IIoT
- Materials & wear/repair engineering

PHASE 02

Process & Systems

2018 – 2024 · optimisation

- ERP implementation (SAP, Exact, Prodist)
- WMS implementation & go-live management
- BOM standardisation & data structuring
- Process automation strategy
- Digital transformation roadmaps
- Stakeholder & budget management
- Agile / Scrum / Kanban
- Technical training & documentation

PHASE 03

AI & Software

2024 – now · integration

- Multi-agent architecture & orchestration
- LLM integration & RAG pipelines
- pgvector / vector search
- Predictive maintenance & anomaly detection
- n8n workflow automation
- Laravel / PHP · Python · React
- PostgreSQL · Docker · Linux/VPS
- REST API · WebSocket real-time

AI INTEGRATION

2024 – Present

VoidTech Solutions OÜ
Estonia · remote

Founder & Industrial AI Consultant

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

- **ERP delivery** — Custom ERP for a laser cladding OEM (Laravel · PostgreSQL · Docker). BOM management, quoting engine, spare-parts cataloguing, branded PDF output. Sole architect & developer.
- **AI architecture** — VoidOS multi-agent platform with orchestration, task planning, context & memory strategies and role-based guardrails. Four agents coordinated via WebSocket.
- **Search & recommendation** — 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.
- **Advisory** — Digital transformation engagements: process mapping, AI-readiness assessments, implementation roadmaps.

PROCESS OPTIMISATION

2022 – 2024

Lagersmit Sealing
Solutions B.V.
Maritime & offshore
sealing

Project Lead / R&D Engineer

End-to-end ownership of process & facility transformation programmes

- **Process automation strategy** — Authored the roadmap to automate key business processes. Budget & stakeholder advisory across operations.
- **WMS + ERP go-live** — Led end-to-end WMS implementation and ERP integration, requirements through go-live, with *zero production downtime*.
- **Warehouse rebuild** — Phased demolition and reconstruction of the warehouse during live operations.
- **Assembly line upgrade** — Expanded footprint and re-flowed material movement.
- **R&D** — Designed, prototyped and tested new industrial sealing products from concept to production approval.

PROCESS OPTIMISATION

2018 – 2022

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

Technical Manager

Brought in to modernise an analogue, paper-driven machine shop

- **Process optimisation programme** — Led full transition from paper-based workflows to a digitised ERP (Prodist). Restructured how the business captured, stored and retrieved technical data.
- **BOM & article standardisation** — Moved from copy-the-last-job to structured article and BOM data — measurably reduced errors and lead times.
- **Operations** — Managed production, quality control, and end-to-end customer project delivery in a CNC, repair & wear-protection environment.

INDUSTRIAL FOUNDATION

2015 — 2022

Lenomi (own venture)
Industrial tooling &
engineering

Founder & Engineer

B2B e-commerce for industrial tooling, run alongside day-job — sold in 2022

- **B2B platform** — Designed and operated an early B2B webshop for industrial tooling, PPE and measurement equipment. Online campaigns, folder campaigns, customer site visits.
- **Engineering services** — Lasting solutions in welding, fabrication and machining, delivered from an own workshop with lathe, CNC mill and welding equipment.
- **Designed and built own CNC milling machine** — Frame, electronics, Mach3 control, Fusion 360 CAM toolchain (2016–2017). Early hands-on automation engineering, delivered to commercial customers.

INDUSTRIAL FOUNDATION

2017 — 2018

Elcee Holland B.V.
Casting & forging
procurement

Sales Engineer — Casting & Forging

Technical B2B sales with international manufacturers

- 3D model optimisation for cast and forged components; technical drawing accuracy and tolerance specification.
- Managed full order lifecycle — quotation through prototype, production oversight, customer sign-off.

INDUSTRIAL FOUNDATION

2014 — 2017

Messer Eutectic
Castolin Benelux
Repair, wear &
thermal spray

Application Specialist — Repair & Wear Solutions

Project sales of welding, wear protection & thermal spray solutions to industrial majors

- **Procedure authoring** — Wrote full repair procedures; coordinated transport, execution and customer sign-off on every project.
- **Technical training** — Delivered 2-day hands-on programmes at the Edingen (BE) factory in welding, thermal spraying, hardfacing and PTA.
- **Specialisation** — Regular factory visits in France & Poland; reported directly to the CEO with structured forecasts and project pipelines.

EARLIER ROLES · 2006 — 2014 · INDUSTRIAL FOUNDATION

2013 — 2014

Karat Holtan — Sales Rep Tooling. Cold acquisition.

2011 — 2013

Eriks B.V. — Product Specialist Machining. Tooling advisory, tenders, SAP product data.

2009 — 2011

Stork Gears & Services — Laser Cladding Specialist. Co-developed mobile robot cell for on-site cladding.

2007 — 2009

DL Metaal · freelance — Machinist & flame spray. Brush HMA (rotors), Van Krimpen (Ø1200mm turning), Motormaas (propeller shafts).

2006 — 2008

IHC Smith Kinderdijk — CNC Apprentice. BBL machining for offshore & dredging.

04 SELECTED PROJECTS

VoidOS — Multi-Agent AI Platform

LARAVEL · REACT · POSTGRES · N8N · DOCKER · WEBSOCKET

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

AI Product Recommendation System

POSTGRES · PGVECTOR · WOOCOMMERCE · PYTHON

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

Mobile Laser Cladding Robot Cell — Stork

ROBOTICS · INVENTOR 3D · R&D

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

Industrial ERP — Hornet Laser Cladding

LARAVEL · POSTGRES · DOCKER · PHP 8.3

Custom ERP: BOM management, branded quote engine, spare-parts cataloguing (150+ items), client portal. Sole architect & developer.

WMS + ERP Integration — Lagersmit

WMS · ERP · PROCESS REDESIGN

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

Self-Built CNC Milling Machine

MACH3 · FUSION 360 · CUSTOM ELECTRONICS

Designed and built a CNC milling machine from re-sourced steel. Delivered work for commercial customers (stress-relief milling, fabrication frames).

05 EDUCATION & CERTIFICATIONS

EDUCATION

Mechanical Engineering · part-time Hogeschool Rotterdam · 2011

CNC Machining · BBL IHC / STC · 2006

Shipping & Transport STC Rotterdam · 2005

TECHNICAL & PROFESSIONAL CERTIFICATIONS · 24+

European Thermal Spraying Specialist · 2019

PLC Programming 1-3 · 2021 hyperMILL CAD/CAM · 2021

Brazing · Spray & Fuse · PTA · 2015

Welding Robot Programming · 2009 VCA Full Safety · 2016

EU Drone Pilot EASA A1/A3 · 2024 Agile · Scrum · Kanban · 2024

Leadership & Management · 2023 NIMA / SMA-A Sales · 2010

LANGUAGES

Dutch – native

English – C1

PERSONAL

Based in the Netherlands · married, 3 children · 16-month family world trip 2024-25 while running VoidTech remotely.

INTERESTS

FPV drones · 3D printing · CNC machining · trading systems