

Bram Borghijs

FOUNDER & AI SOLUTIONS
ARCHITECT
INDUSTRIAL ENGINEER

▶ AVAILABLE FOR FREELANCE

▶ AVAILABLE FOR PROJECTS

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(medium)

TECH STACK

FULL-STACK

Next.js React Tailwind
FastAPI Supabase+RLS Docker
MCP

AI & AUTOMATION

Anthropic API n8n Ollama
ADK Claude Code Antigravity
TensorFlow PyTorch OCR

INDUSTRIAL

Lean Six Sigma Industry 4.0
OPC-UA TIA Portal SAP MES

SECURITY

GDPR RLS/RBAC Audit trails
Privacy by Design

TOOLS

Power BI Excel VBA
MS Project SolidWorks
AutoCAD Eplan

PROFILE

Founder of AI-Borg BV — building custom AI-driven web applications and automation workflows for industrial SMEs in Belgium. Industrial engineer by background (electromechanics, €2.5M projects, Lean Six Sigma Green Belt) with 5+ years of hands-on experience in process digitalization. From shop-floor process analysis to full-stack deployment. Active clients in concrete manufacturing and mining. Available for project-based freelance collaboration. Post Graduate AI — Howest (2026).

EXPERIENCE

Founder & AI Solutions Architect

2026 – present

AI-Borg BV · ai-borg.be · Sint-Gillis-Waas, Belgium

- ▶ Building custom reactive web applications with integrated AI agents for industrial clients — full ownership from process analysis to production deployment.
- ▶ Multi-tenant platforms with Supabase RLS, GDPR-compliant data handling, and Privacy by Design. Three-tier AI governance: no-AI / local Ollama / Anthropic API.
- ▶ n8n orchestration for automated procurement and agentic loops — integrating SAP, Siemens Linkworx, and OPC-UA.
- ▶ Active clients: De Rycke Gebroeders NV (concrete) and a multinational mining & materials group (MES).

Innovation & Digitalization Engineer

2026 – present

Gebroeders De Rycke NV · Kallo · Concrete Manufacturing — [werknemer](#) → [software leverancier](#) via AI-Borg

Next.js FastAPI Supabase+RLS n8n Lean Six Sigma Industry 4.0 SAP
Antigravity ADK

- ▶ **Fase 1 — Werknemer:** Embedded innovatie- en digitalisatieverantwoordelijke. Analyse van workflows en vertaling naar concrete digitaliseringskansen.
- ▶ **Fase 2 — Leverancier via AI-Borg:** BetonStock platform — QR-voorraadbeheer, geautomatiseerde bestelbonworkflows, SAP-integratie en cost reporting.
- ▶ Eindgebruikersvalidatie, change management en uitrol op de werkvloer inclusief opleiding en adoptie.

EDUCATION

Post Graduate AI

Howest
2026

Lean Six Sigma Green Belt

Certified
2025

Master Industrial Engineer

Electromechanics & Business · KU
Leuven
2020-2024

Bachelor Electromechanics

Process Automation · Artesis Plantijn
2017-2020

VCA-VOL Safety Certificate

Industrial Safety
2020

EXPERIENCE - CONTINUED

Project Engineer & Lean Specialist

2021 - 2026

Indinox NV · Lokeren · Industrial Piping & Engineering

Lean Six Sigma Green Belt Industry 4.0 AI & OCR Integration MS Project
Power BI Excel VBA TIA Portal AutoCAD Eplan

- Technical projects up to €2.5M — Arcelor Mittal, Ajinomoto Omnicem, and other tier-1 industrial clients.
- Introduced AI-assisted OCR pipelines for material traceability and automated document processing.
- Lean Six Sigma Green Belt applied: VSM, 5S, root cause analysis, A3 problem-solving.
- Industry 4.0 tooling in Excel VBA for traceability, stock control, and automated reporting.

KEY PROJECTS

BetonStock Platform

De Rycke Gebroeders NV · Concrete Manufacturing · 2026

Full stock management & maintenance platform for an industrial concrete producer. QR-based inventory tracking, automated purchase order workflows on stock thresholds, SAP/ERP integration, and cost reporting dashboards. Deployed as a PWA on the shop floor.

MES Dashboard Modernization

Multinational Mining & Materials Group · On-premise · 2026

Replaced a legacy .NET desktop app with a Next.js + FastAPI dashboard reading live data from Siemens Linkworx SQL Server. Fully on-premise, no external internet. OPC-UA integration for real-time machine data. Major improvement in operator usability and reporting speed.

Master's Thesis — Operational Performance

KU Leuven · Indinox NV · Lean Management · 2024

On-site research at Indinox NV. Mapped AS-IS processes via gemba walks, identified bottlenecks using Lean Six Sigma tooling (VSM, 5S, A3), and digitalized the improvement roadmap via a custom Python desktop application for the engineering team.

TRT Project — Arcelor Mittal

ArcelorMittal Belgium · Steel Manufacturing · Gent

Managed a €2.5M piping and engineering project at one of Belgium's largest steel plants. Full scope ownership from engineering and procurement to site coordination and client handover. Led a multidisciplinary team with strict budget control and timeline adherence.

Safety & Maintenance PWA

AI-Borg Portfolio · Industrial Safety & Maintenance

Mobile-first PWA for industrial environments enforcing LoTO (Lockout/Tagout) safety protocols and preventive maintenance workflows. Context-aware dashboard, mandatory safety gates with sign-off, and photo validation of completed steps. Installable on any device without an app store.