

Ir. Adriaan De Bolle, MSc

Chemical Engineer · Process Digitalisation & Industrial AI

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Chemical engineer (M.Sc., KU Leuven) and Lean Six Sigma Black Belt with a background in chemicals (BASF) and life sciences manufacturing (Pall / Cytiva), followed by 8+ years building software, cloud and AI solutions from requirements to production. I bridge operations, engineering and IT: I map how a process really runs, define what should be digitised, and deliver tools and AI that operators and process owners actually adopt. AWS Certified Solutions Architect. Dutch, French, English and German.

Process × Software highlights

- **Process engineering on site:** energy optimisation and a real-time monitoring tool at BASF's ethylene-oxide plant (Ludwigshafen).
- **Regulated manufacturing:** value stream engineering and change management for single-use biocontainer production at Pall / Cytiva (PSP, Kaizen, Obeya, SAP).
- **Processes into software:** digitised end-to-end operational workflows into production applications as architect or sole engineer (CarManager, Synt, Relotrust).
- **AI into existing system landscapes:** integrated an AI engine into enterprise environments and onboarded two enterprise clients (Contour Lab).
- **Structured improvement:** Lean Six Sigma Black Belt (2026): DMAIC, baseline measurement, root cause, control plans.

Experience

Freelance Consultant / Software & Process - Manengo bv

Jun 2019 - present

Freelance software and (business) process consultancy. Selected projects below.

> Software Integration Lead - Contour Lab

Dec 2024 – Dec 2025

- Managed end-to-end client onboarding for the integration of an AI recommendation engine into fashion e-commerce environments (Salesforce, Shopify).
- Analysed client data flows, and integration requirements; translated into technical specifications and implementation tasks.
- Coordinated between stakeholders to successfully onboard two enterprise clients.

> Software Architect / Product Engineer - CarManager

Jan 2026 - Jun 2026

- Built a B2B vehicle auction platform for Belgian car dealers: real-time bidding, auction management, dealer dashboards, automated vehicle importing and pricing workflows.
- Automated end-to-end operational processes, converted them into structured application workflows.
- Delivered using React, AWS SAM, Supabase, Docker, and containerised services.

> Software Architect - Synt

Jul 2021 - Aug 2026

- Gathered requirements from admins and residents in co-owner associations to build a full management platform
- Analysed administrative workflows and translated them into a web dashboard and mobile app.

> Solutions Architect & CTO - Relotrust

Oct 2019 - Mar 2020

- Designed and delivered a relocation management platform end to end (business analysis, architecture, and cloud delivery).

CEO & Founder - Ubigreat bv

Dec 2021 - present

- Founded two technology products: Matchmaking by Ubigreat (AI event matchmaking) and UNBLND (social discovery platform, 200,000+ users).
- Led business analysis, product strategy, process design, and stakeholder management across both ventures.
- Secured €130,000 in investment; managed investor relationships across the full fundraising lifecycle.
- Selected into imec.istart accelerator. Built business cases, pricing models, and go-to-market strategies.

Teacher (part-time, 45%) - Atheneum Caroline Pauwels, Brussels

Jan 2024 - Aug 2025

- Taught advanced physics and engineering to 'Technologische Wetenschappen & Engineering' students.

Business Analyst & Software Engineer - BakerOnline (Erasmus for Young Entrepreneurs)

Aug 2018 - Feb 2019

Value Stream Engineer & Change Manager - Pall Life Sciences / Cytiva - France/Belgium

Mar 2017 - Feb 2018

- Cross-functional liaison between Production, Quality, Sales, and Logistics in a regulated industrial environment.
- Analysed production and logistics processes to identify inefficiencies; redesigned assembly procedures for single-use biocontainers and resolved production disruptions. (PSP, Kaizen, Obeya)
- Automated internal logistics controls using Excel VBA and SAP; coordinated operational change across multiple departments.

Process Engineering & Software Intern, BASF - Ludwigshafen, Germany

Jul 2015 – Aug 2015

- Energy optimisation at the EO-plant; built a custom monitoring tool combining process engineering and software. (MES, ERP)

Education

M.Sc. Engineering: Chemical and Biochemical Technology

2011 - 2016

KU Leuven, Belgium 🇧🇪 · Exchange: Polytechnique de Montréal, Canada 🇨🇦 (2014 - 2015)

Certifications

Lean Six Sigma Black Belt - SSD Global Solutions, Belgium

2026

Certified in DMAIC methodology and structured process improvement - applied across SpineWise (assessment cycle-time reduction) and Ubigreat (growth experimentation).

AWS Certified Solutions Architect - Associate ([Credly](#))

Skills

Process & PM: Lean Six Sigma (DMAIC), requirements gathering, workflow mapping, value stream mapping, functional specifications, change management, stakeholder management, business cases, Agile, Product Management

Frontend: React, React Native, Vue.js, Angular, HTML, CSS, Tailwind

Backend: Supabase, Node.js, PHP/Laravel, MySQL, REST API, BFF Architecture

Cloud & DevOps: AWS (SAM, Lambda, Bedrock, S3), Supabase, Docker, Git, DevOps

Data & AI: KPI Monitoring, AWS Bedrock, Recommender Systems, Clustering, MCP: Claude Code & Jules by Google, Prototyping w/ Lovable & Base44, GitHub Copilot, RAG: dedicated chatbot services, Agentic workflows

Familiar: Swift, C++, Java, BoxCox, Customer Journeys, Business Development, SAP, VBA, Python, FastAPI, Azure, GCP

Awards & Recognition

imec.istart portfolio company

Green Sharks finalist (social impact entrepreneurship)

YTIIL Transatlantic Innovation Leader finalist

Volunteering

- Flemish workgroup for people with dementia (2022 - ongoing)
- Guardian of unaccompanied refugee minors, FOD Justice Belgium (2016 - 2019)
- Student Buddy Program, KU Leuven (2011 - 2013)

Languages

Dutch 🇧🇪 - Native **English** 🇬🇧 - C2 **French** 🇫🇷 - C1 **German** 🇩🇪 - B1 **Spanish** 🇪🇸 - A2 **Chinese** 🇨🇳 - A1

Additional

Based in Brussels, Belgium · Full right to work in Belgium and the EU