



CONTACT

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Sint-Niklaas, Belgium · Hoof BV

SKILLS

Back end

C#, .NET Framework 4.8 to .NET 10, ASP.NET Core, REST, Entity Framework, CQRS, Clean Architecture

AI

GenAI / LLMs, Claude Code, agentic workflows, MCP, AI-assisted development

Data

SQL Server, MySQL, PostgreSQL, Kafka, MQTT

DevOps

Azure DevOps, GitLab CI, Jenkins, Docker, Kubernetes / OpenShift, IIS

Quality

NUnit, xUnit, Moq, testable architecture

Ways of working

Scrum, Kanban, Jira, Confluence

CERTIFICATIONS

Professional Scrum Master II

Scrum.org · 2024

Professional Scrum Product

Owner I

Scrum.org · 2024

Professional Scrum Developer I

Scrum.org · 2023

Professional Scrum Master I

Scrum.org · 2022

Koen Hoof

Freelance tech lead and AI adoption coach for .NET teams

Industrial Engineer in Informatics | Postgraduate in AI

PROFILE

I am a freelance .NET developer and tech lead. I build business-critical .NET software and help teams make AI a natural part of their everyday work.

I have worked for Pfizer, ArcelorMittal, Daikin and now EDPnet/Citymesh, among others, each time on software the business runs on. I make sure such a system can keep growing without disrupting day-to-day work.

Before moving into development full time, I taught programming for twelve years. That helps me explain complex choices clearly and bring a team along. I am a certified Scrum Master (PSM II) and Product Owner (PSPO I).

STRENGTHS

Technical leadership

Giving .NET teams direction while working in the code myself.

Architecture and quality

Clean Architecture, CQRS, testable code and CI/CD.

AI in development work

Tools, ground rules and workflow, with attention to quality and privacy.

Coaching and training

Twelve years of teaching, Scrum Master and Product Owner.

EXPERIENCE

EDPnet / Citymesh

Dec 2024 – present

Senior .NET Engineer, AI-assisted development

Since Citymesh acquired EDPnet at the end of 2023, its in-house software has to follow: from packages built for internal use to a scalable platform within the group. I work across the whole BSS landscape (customer management, provisioning, billing and portals for mobile and fixed lines): six related codebases around one shared database, from .NET Framework 4.8 to .NET 10.

- **Modernisation:** building the domain layer and the new Clean Architecture back end that gradually replaces the back office, with explicit error handling and async from API to database.
- **New APIs:** REST APIs behind the helpdesk, planning and repair tools and the customer portal, so those tools could go live sooner.
- **Telecom integrations:** number portability, mobile provisioning and eSIM, charging, payments and identity management.
- **Quality:** set up a structured test environment, reworked code into testable structures, CI/CD management and IIS optimisation.
- **AI workflow:** set up an AI-assisted way of working with Claude Code across all six repositories, with shared context, ground rules and automation in Azure DevOps.

C# · .NET 4.8–10 · ASP.NET Core · EF Core · SQL Server · REST · NUnit / xUnit · IIS · Azure DevOps · GitLab · Claude Code

EDUCATION

2023
Industrial Internet of Things
KU Leuven, Ghent

2021–2022
Postgraduate in Artificial
Intelligence in Business and
Industry
KU Leuven Kulak

2006–2010
Industrial Engineer in Informatics
HoGent

LANGUAGES

Dutch
native

English
fluent

EXPERIENCE (CONTINUED)

Pfizer May 2023 – Nov 2024
Technical Owner, Scrum Master and .NET Developer

Built custom software, in a team of five, to monitor, manage and report on the edge devices across the Puurs production site.

- **Central IoT management:** co-developed a serverless application with microservices on Kubernetes / OpenShift, in a GMP environment.
- **CI/CD:** introduced automated test and deployment pipelines in Jenkins. Every release went out as a fully tested test version before production.
- **Team guidance:** as Scrum Master and technical point of contact, made feature delivery smoother.

C# · .NET · microservices · Kubernetes / OpenShift · Jenkins · GitLab · Jira · Confluence · Scrum

ArcelorMittal Sep 2022 – May 2023
.NET Developer

Because of the sanctions against Russia, the port division's planning system suddenly had to handle far more goods.

- **Logistics:** vessel tracking and loading and unloading planning per crane.
- **Architecture:** MVVM and a message pattern in WPF, CQRS in the Web API.
- **Data integration:** data exchange between systems via Entity Framework.

C# · WPF · MVVM · Web API · WCF · CQRS · Entity Framework · SQL Server · Telerik · Scrum

Daikin Europe Jun 2018 – Sep 2022
.NET Developer and Product Manager

R&D test tooling for the firmware updates of installers across Europe.

Nov 2023 – Mar 2024: asked back for a complex integration that needed specific knowledge.

- **Architecture:** moved C# WPF and VB.NET WinForms applications to a modern MVVM architecture.
- **Protocols:** reverse-engineered and fine-tuned data protocols for new CPUs, controlled external test boxes over MQTT.
- **Release management:** end-to-end responsibility for integrating new firmware, with R&D sites in Ostend, Czechia, Germany and Turkey.
- **Test automation:** API layer for automated tests (Robot Framework, Jenkins): regression tests went from 2+ hours to 5–10 minutes.

C# · VB.NET · WPF · WinForms · MVVM · MQTT · Robot Framework · Jenkins · GitLab · NUnit · Scrum

Broederschool Sint-Niklaas / HoGent Sep 2011 – Jun 2022
IT teacher and lecturer

- **Subjects:** programming in VB.NET and C#, web development (HTML, CSS, ASP.NET), databases (MySQL) and networking (Active Directory, DNS, DHCP).
- **Coaching:** coached student teams using Scrum, including home automation (Internet of Things) and WPF applications.
- **Curriculum:** designed my own courses in C#, .NET, web development and network administration. Also lecturer at HoGent in 2016–2017.