

Bas Stokmans

— Software Developer · AI & Robotics

Profile

Junior software developer with real enterprise experience in .NET, Angular and Azure, and the founder of a web studio with four happy clients. I like building across every layer: from database and API to interface, and on to AI models and robots. I use AI agents (Claude Code, Codex) daily to build faster and better, and I spent a year studying Design & Production Technology to understand the hardware side as well.

4

Lead Local clients

7k

images trained on

~24 ms

GPU inference / frame

Experience

Founder & full-stack developer

2026 – present

Lead Local · self-employed

- Own web studio for local businesses: strategy, design, development and hosting.
- 4 happy clients, including a law firm and a physiotherapy practice.
- Stack: Next.js, Tailwind, Payload CMS, Stripe, Resend, Vercel and Cloudflare, built with AI agents.

Software engineering intern

Feb 2025 – May 2025

Teal Partners · Antwerp

- Built an end-to-end payroll data archiving flow in an existing .NET and Angular enterprise application.
- Retrieved complex data via SQL Server and NHibernate and mapped it to stable JSON archive models.
- Integrated Azure Blob Storage through an abstraction layer, with a deterministic storage layout.
- Developed an API and a new Angular viewer for archived payroll calculations.
- Internship graded 17/20.

.NET Angular SQL Server NHibernate Azure MediatR

Education

Design & Production Technology (credit contract)

2025 – 2026

Thomas More · Belgium

- CAD (Inventor), CAM (Siemens NX), CNC, prototyping, product design

Welding (evening school)

2025 – 2026

Professional Bachelor in Applied Computer Science

2020 – 2025

HOGENT · Ghent

- Specialisation: mobile & web development

Secondary school, Economics & Modern Languages

2014 – 2020

Sint-Theresiacollege

Contact

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Belgian citizen (EU/EFTA, free
movement)

Relocating to Zürich, available April 2027

Languages

Dutch Native

English C1

French A2

German A2 → B1 (Apr 2027)

Skills

DEVELOPMENT

.NET / C# TypeScript Angular
React / Next.js SQL Server REST APIs

AI & DATA

Python PyTorch / YOLO OpenCV
Claude Code & agents Codex
Local LLMs

CLOUD & TOOLS

Azure Blob Storage Docker Git
Vercel Cloudflare Swagger

ENGINEERING

Autodesk Inventor Siemens NX CAM
CNC milling 3D printing Laser cutting
Arduino / ESP32

Other work experience

Barista

Madmum · Mechelen
2025 – 2026

Student job

Asiat bouldering gym
2025 – 2026

Youth movement leader

Hombeek
2018 – 2024

Interests

- Bouldering
- Robotics & maker projects
- Local AI
- Coffee

References

Available on request (Teal Partners,
Lead Local clients)

Projects

Drone roof-damage detection
Bachelor thesis · AI & computer vision

Trained YOLOv5 and YOLOv8 models on 2,766 labelled images in 8 classes, augmented to 7,198. Square-root class balancing raised recall from 0.59 to 0.77, tested on unseen data and connected the model to a live drone stream (MediaMTX and FFmpeg) with 520–540 ms latency. Also added EigenCAM explainability and benchmarked CPU against GPU (~124 vs ~24 ms per frame).

- Python
- YOLO
- PyTorch
- OpenCV
- CUDA
- XAI

SCARA robot
Thomas More · robotics & manufacturing

Built a basic working pick-and-place SCARA robot as a school project in a team of four. My part: the arm rods and a housing for the Arduino over three iterations. The team also made a CNC-milled aluminium base (NX CAM, Romi D600) and a laser-cut base plate. This was followed by McGrabber, a fully designed desktop claw machine with three stepper motors, a drawing package and a bill of materials.

- Inventor
- Siemens NX
- CNC
- Arduino
- 3D print

Cycle: period-tracking app
Own product · in development

Mobile-first app for tracking the menstrual cycle, focused on interaction design, privacy and a gentle, personal UX. I'm building it with AI agents, from prototype to app.

- React
- TypeScript
- Mobile
- UX

NOVA: local AI assistant
Side project · experiment

Experimental prototype of a voice assistant with wake word, local LLM, STT and TTS, streamed responses and barge-in. Built with Node.js, Electron and Web Audio.

- Node.js
- Electron
- LLM
- Web Audio

Vapecycle
Product development · hardware

Power bank made from cells recovered from disposable vapes. Market study, SWOT, design of a 17-cell enclosure and prototype validation.

- CAD
- Electronics
- Prototyping