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I build hardware-software systems from scratch - one project per week, in my home lab, because I want to. My goal is to work on real products at a company where what you build actually matters.



TOP 5 PROJECTS OF 20+ COMPLETED | 5+ PLANNED

TITLE	DESCRIPTION	TECHSTACK	PHOTO
AI Tactical Field Unit <i>HW + SW</i>	This wearable device lets you talk to AI through a speaker.	ESP32 INMP441 I2S MAX98357 Groq Whisper Claude API ElevenLabs Flask	
Underwater Drone Mission Configurator <i>Software</i>	Mission planning web app for autonomous underwater drones. Live at lamprey-configurator.onrender.com	PHP PostgreSQL JavaScript Neon DB Render	
Wireless GPS Position Tracker <i>HW + SW</i>	Wearable tag that streams your live location to a handheld display.	ESP32 NEO-6M GPS LoRa Ra-02 ESP-NOW OLED	
Light Pulse Message Transmitter <i>HW + SW</i>	Two devices that send text to each other using pulses of light.	ESP32-CAM ESP32 WROOM LDR LED OLED Perfboard	
Motion Detection Camera <i>HW + SW</i>	Camera that saves a photo to SD card every time it detects movement.	ESP32-WROVER OV3660 PIR sensor MicroSD LEDs	

The next builds in progress: Autonomous Drone, Exoskeleton Suit, Robotic Dog, Humanoid Robot, etc.

SKILLS & TECHSTACK

Hardware and Embedded ESP32 variants, LoRa Ra-02, NEO-6M GPS, INMP441, MAX98357, PIR, LDR, OLED, perfboard soldering, CNC, laser cutting, 3D printing.

Software and Platforms HTML, CSS, JS, PHP, Python, Java, SCL/PLC, TIA Portal, NX, Solid Edge, SEE Electrical, MATLAB/Simulink, n8n, Vercel, Render, Neon DB.

AI and APIs Claude API, Groq Whisper, ElevenLabs, MediaPipe, TensorFlow.js, Tavily

WHAT I BRING TO YOUR TEAM

You get an engineer who doesn't wait to be taught - Since early 2026 I've been building autonomously, one project per week, combining hardware and software end-to-end. At this stage, most students write code or wire circuits. I do both, and I ship. I'm looking for an internship, part-time role, or lab position in Belgium, ideally at a defense contractor, mechatronics firm, or research lab where real products get built. Target domains: autonomous systems, naval & defense, robotics, industrial automation, embedded hardware.

Georgian national studying in Belgium. Open to employers that support work authorization.