

# Nicky Embrechts

## Student

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### BIOGRAPHY

I am passionate about technology and innovation, constantly seeking opportunities to learn and grow in the field of Computer Science. As a dedicated martial artist with a Black Belt in Karate, I have developed strong discipline and patience. In my free time, I enjoy tinkering with various technologies and exploring ways to apply them creatively.

### EDUCATION

- **Ms. Computer Science** | Vrije Universiteit Brussel (VUB) | 2023 - Present
  - Profile: Artificial Intelligence.
- **Ba. Applied Computer Science** | Thomas More University | 2020 - 2023
  - Grade: **Cum Laude**
  - Profile: Digital Innovation
  - Thesis & Internship: Research project on behavior analysis and pose estimation in detecting autism spectrum disorder. Using computer vision and data science techniques in biomedical research.
- **High School** | Vrij Technisch Instituut Zandhoven (VTIZ) | 2014 - 2020
  - Profile: Electrical Installation Techniques
  - Thesis: Automatic industrial can press consisting of servo, air press, PLC and programs, sensors, emergency stop, control buttons, touchscreen, fuse box, etc..

### EXPERIENCE

- **Repair Technician** | iRescue | Jun 2019 - Dec 2025
  - I am the owner and sole operator of a student-run business that repairs consumer electronics, including smartphones, tablets, and other devices.
- **Student Intern** | The IT Garage | Feb 2024 - May 2024
  - Developed an IoT Vertical Garden system, automating plant care through smart water and light distribution.
  - Focused on real-world data aggregation and hardware-software integration.
- **Research Intern** | Holon Institute of Technology | Mar 2023 – May 2023
  - Applied Computer Vision and pose estimation to analyze behavior in biomedical research.
  - Developed automated data analysis pipelines to assist in studying autism spectrum disorders.
- **Technical Consultant Intern** | VanRoey | Jul 2022 – Aug 2022
  - Worked in the Microsoft Dynamics 365 ecosystem and Power Platform.
  - Built internal business solutions using Power Apps to streamline corporate workflows.

### PROJECTS

- **Homelab:** I have a passion for technology and enjoy building and maintaining my own home server. This self-hosted project has allowed me to explore various technologies, including Linux, virtualization, NAS, Networking, and Docker. I've implemented a range of services, such as a photo server, backup solutions, NLP tools, streaming service, a gaming server, ... all while leveraging monitoring systems to ensure optimal performance.
- **Digital Innovation:** During my Bachelor, I had the opportunity to collaborate with companies like Algorhythm, Carbon+Alt+Delete, Axxes, ... I have worked on countless projects, but I am particularly proud of my contributions to the following:
  - Deepfake Detection: Developing a system to identify manipulated media.
  - Robo Soccer: Contributing to the development of an autonomous soccer-playing robot.
  - People Counter: Implementing a camera system to monitor classroom occupancy.

### OTHER

- Dutch: Native language
- English: IELTS score of 7.0
- Class B driver's license