

GUILLEM BARTA GONZÀLEZ

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EDUCATION

Universidad Internacional de Valencia (VIU)

2024-25

Master of Science in Artificial Intelligence — 66 ECTS

Coursework: Python for AI, Mathematics for AI, Optimization Algorithms, Approximate Reasoning, Supervised Learning, Unsupervised Learning, Neural Networks and Deep Learning, Reinforcement Learning.

Universitat de Barcelona

2019-23

Bachelor of Science in Physics, Experimental Physics Major — 240 ECTS

Applied physics coursework: Computer Science, Meteorology, Materials Physics, Electronics, Electromagnetic Technology, Image Processing, Simulation Programming, Nanotechnology, Geophysics, Energy, Photonics.

Lab experience: Chemistry, Image Processing and Artificial Vision, Mechanics, Thermodynamics, Electromagnetism, Meteorology, Geophysics, Optics, Electronics, Electromagnetic Technology, Photonics, Nanotechnology.

Norwegian University of Science and Technology (NTNU), Trondheim, Norway

2022

Erasmus Exchange Semester, BSc Physics — 30 ECTS

Coursework: Photonics, Applied Data Science, Applied Geophysics, Semiconductor Devices.

EXPERIENCE

Group Saltó — Lleida, Spain

Mar 2024 – Present

AI Engineer, Full-time

- Built and maintained AI multi-agent apps in .NET with tool selection, user context, long-term memory continuity, and graphic data display.
- Designed the RAG pipeline: web-scraping, embedding generation, database indexing, and vector-search.
- Trained personalized wake-word spotting models and designed a lightweight always-on Android system.
- Automatized speaker recognition on Android and built user interfaces to easily manage speakers.

Amazon — Barcelona, Spain

Sep 2023 – Dec 2023

Logistics Analyst, Full-time

- Analyzed data to support large-scale logistics.
- Directly supported on-road carrier calls and warehouse inbound issues.

Universitat de Barcelona — Barcelona, Spain

Sep 2022 – Aug 2023

Research Study Assistant, Part-time

- Built a single-pixel camera using a commercial projector and a PiCamera; automated and synchronized the system with Python on a Raspberry Pi.
- Investigated single-pixel imaging systems in the Wavefront Lab, Applied Physics Department, under the supervision of Dr. Maluenda.
- Designed experimental setups; gathered data and compared results against external publications.
- Thesis and code: github.com/Willy8m/TFG-Single-Pixel-Imaging

FlexSim — Barcelona, Spain

Sep 2021 – Jun 2022

Simulation Engineer, Internship

- Programmed industrial digital-twin logic with FlexSim and C++.
- Trained neural networks with Python to select the most efficient processing sequence and to plan warehouse routes.
- Code: github.com/Willy8m/AGV-pathfinding-en-FlexSim-con-Python

Tècniques Mecàniques Ilerdenses — Lleida, Spain

Jun 2018 – Jul 2018

Intern

- Completed a bootcamp on SolidWorks 3D and manufactured an industrial materials pallet for the warehouse.

SKILLS

Programming: Python, Kotlin, C#
Machine Learning: TensorFlow, PyTorch
Cloud & Platform: Azure, Agent Framework
Tools: Git, DevOps

CERTIFICATIONS

OpenAI with Azure Foundry (Nallam, Jun 2025)
C2 English Proficiency (Cambridge School, Feb 2024)
Driving License, B2 Permit (DGT, Sep 2023)

LANGUAGES

Catalan, Spanish — Native
English — Proficiency (C2)
Norwegian — Beginner