

Sergi Flores Marín

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About

- I am a passionate AI student with strong interests in robotics, deep learning, and reinforcement learning. I actively work on self-driven projects and hackathons, but I am also interested in research, where I enjoy investigating innovative approaches and translating them into real-world applications.

Education

Artificial Intelligence Bachelor's Degree

- FIB - Universitat Politècnica de Catalunya | 2023 – 2027 expected

Experience

GenAI Research Intern | MANGO | 07/2025 – Current

- Developed and fine-tuned diffusion and virtual try-on systems for image generation, trained computer vision models for fashion landmark detection and contributed to the development and deployment of multimodal, end-to-end pipelines.

Skills

- **Proficient at:** | Python | R | MATLAB | PyTorch | Tensorflow | OpenCV | ROS2 | git |
- **Familiar with:** | C++ | HTML | CSS | TypeScript | PostgreSQL | Gymnasium | MuJoCo |
- **Languages:** | English - First Certificate (B2) | French - DELF (B1) | Spanish (C1) | Catalan (C1) |

Projects

SENER-CEA Bot Talent Competition | Nov 2025 – May 2026

- Spent 6 months developing an open-source autonomous rover as part of the UPC team for Spain's national SENER-CEA Bot Talent competition. Mainly contributed to the perception pipeline by experimenting with lightweight detection model architectures and classical RGB-D approaches, including the integration of this module into the full navigation system in ROS2.

Awards

Technology & Design Awards | SENER-CEA Bot Talent | May – 2026

- Recognized for the most innovative and technically robust solution and the most suitable assembly and outstanding use of engineering best practices on the modified open-source autonomous rover.

Global Nominee | NASA Space Apps Challenge | Oct – 2025

- Developed a website that uses classical computer vision algorithms and natural language processing to let users explore high-resolution stellar images using natural language queries mapped into SQL.

1st Prize | BitsXLaMarató BSC Challenge | Dec – 2025

- This project uses five continuum scoring semi-supervised methods to classify medulloblastoma subtypes, moving beyond binary labels to capture gradual phenotypic differences.

Other Awards | 1st Prize Datathon FME 2024 AED Challenge (Bcn, 11-23) | 1st Prize BitsXLaMarató BSC Challenge (Bcn, 12-24) |

| 2nd Prize HackUPC SEAT S.A. Challenge (Bcn, 05-25) | 2nd Prize HackEPS Ingroup Challenge (Lleida, 11-25) |