MARCOS **DEL AMO FERNÁNDEZ**

Penultimate-year student in a Dual Degree Program

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LANGUAGES:
Spanish: Native
English: Advanced (IELTS Academic C1)
Basque: Native
French: Basic

PROFESIONAL PROFILE

Penultimate-year student in the Dual Degree Program in Business Management and Computer Engineering at the Polytechnic University of Valencia (UPV) with a strong passion for scientific computing, research, and emerging technologies. My academic background combines a solid foundation in business management and finance with technical skills in parallel programming, distributed systems, compiler development, and computer architecture simulation.
I am eager to gain my first hands-on research experience and contribute to meaningful innovative research projects.

PROFESSIONAL EDUCATION

Double Degree in Computer Engineering and Business Administration and Management
Polytechnic University of Valencia - UPV   *September 2021 – June 2026*
- **16 Honor Distinctions** earned to date.
- *Awarded the Santander PROMOE International Mobility Scholarship – the sole scholarship recipient at UPV – for an exchange at the* **University of Pennsylvania (Wharton & Penn Engineering)** *during the second semester of the academic year 2025–2026.*

RELEVANT EXPERIENCE

Member - UPV Competitive Programming Club, CP-UPV | March 2025-May2025
- Engaged in algorithmic problem-solving and competitive programming challenges, solving over 250 problems on LeetCode: *Details.*
- Enhanced teamwork and communication skills through collaborative problem-solving sessions and competitions.

Start-Up Development, JOIN - START UPV at IDEAS UPV | January 2024- April 2024
- *JOIN Co-Founder*
- *Participation: 7th Edition of the "START UPV Campus d'Alcoi" Contest*

The 1rst prize was awarded to Marcos del Amo and Diego Acosta Blaschitz for their project JOIN. The award was presented by the rector of UPV, José E. Capilla. Details.

RELEVANT SKILLS

- *Programming Languages:* Java, Python, C/C++, (Flutter/Dart)
- *Concurrency & Synchronization:* Advanced knowledge of thread execution, synchronization techniques (semaphores, mutexes, condition variables), and critical section management.
- *Distributed Systems:* Practical experience with RPC, RMI, and RabbitMQ.
- *General Parallelism:* OpenMP, MPI, pthreads.
- *Computer Architecture:* Processor simulation (DLX, vector-based, segmented architectures), benchmarking, and performance analysis.
- *Data Analysis & Machine Learning:* Python (pandas, NumPy, scikit-learn) Logistic Regression, R (RStudio) Ordinal Regression, Advanced Excel Solver Simplex LP Function (Operations Research).
- *Finance & Operations Management:* Portfolio management, Markowitz optimization, technical/fundamental analysis, operations management (aggregate planning, materials requirements planning).
- *Business Tools & Communication:* Financial analysis, project management, process optimization, TEDx-style public speaking.