Marcos Ibáñez Fandos

Work permit: Spanish, German | **Place of birth:** Valencia, Spain | **Nationality:** Spanish |

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ABOUT ME

I enjoy deconstructing problems and building solutions at the intersection of tech and financial innovation. Whether it's analyzing market dynamics or developing new tools, I'm motivated by the impact of financial technology on our daily lives. I'm always looking for smarter ways to connect business logic with great tech.

WORK EXPERIENCE

ICT NETWORK TECHNICIAN – PAMESA CERAMICS (INTERNSHIP) – 1 Jun 2023 – 31 Aug 2023 – VILA-REAL, SPAIN

Business or Sector: Manufacturing | **Website:** www.pamesa.com

- Network Deployment: Assisted with structured cabling and network infrastructure in industrial environments.
- Rack Management: Configured and maintained equipment racks and panels in corporate data rooms.
- Fiber Optics: Performed fiber optic installation, splicing, and signal certification.
- Technical Support: Diagnosed connectivity issues and collaborated with engineering teams to optimize performance.

SOFTWARE DEVELOPER FOR DATA APPLICATIONS – ETRA I+D (INTERNSHIP) – 1 Jun 2022 – 31 Aug 2022 – VALENCIA, SPAIN

Business or Sector: Professional, scientific and technical activities | **Website:** www.grupoetra.com

- Developed internal software tools to optimize fleet management (efficiency, cost, and sustainability) of public transportation systems.
- Automated data ingestion and transformation processes using Python and SQL for operational dashboards.
- Built workflows with Alteryx to structure KPIs by vehicle, time range, and energy consumption metrics.
- Designed data visualizations in Power BI to support decision-making in operations and maintenance teams.
- Developed an internal application in C# to visualize operational bus data, collaborating with cross-functional teams and using Jira and Confluence for task tracking and documentation.
- Contributed to reducing manual reporting, minimizing human errors, and improving operational efficiency.

EDUCATION AND TRAINING

DEC 2025 Valencia, Spain
B.SC. IN TELECOMMUNICATIONS ENGINEERING Universitat Politècnica de València

- High Academic Performance Group
- Specialization in Telematic Systems
- **Thesis on Fraud Detection in FinTech Transactions Using Artificial Intelligence**
  - Built a cost-sensitive fraud detection system using ML models (Random Forest, XGBoost, LightGBM) focused on minimizing financial loss.
  - Addressed extreme class imbalance with SMOTE, class weighting, stratified splits, and probability calibration.
  - Optimized decision thresholds by economic cost, aligning model outputs with real-world business and regulatory constraints.

Website www.upv.es | **Field of study** Database and network design and administration | **Level in EQF** EQF level 6

1 OCT 2024 – 31 AUG 2025 Munich, Germany
ERASMUS+ PROGRAMME Technical University of Munich

Website www.tum.de | **Field of study** Electronics and automation | **Level in EQF** EQF level 6

LANGUAGE SKILLS

Mother tongue(s): **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	B2	B2	B2	B2	B2
GERMAN	B2	B2	B1	B1	B2
CATALAN	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Programming & Software Development

Python (Pandas, Numpy, Matplotlib, Scikit-learn, Streamlit) ┃ SQL ┃ Java ┃ JavaScript ┃ C# ┃ C++ ┃ MATLAB ┃ Verilog ┃ Android Studio ┃ IntelliJ IDEA

Data & Analytics

Power BI ┃ Alteryx ┃ Excel

Cybersecurity

Nmap ┃ Kali Linux ┃ Metasploit ┃ Zyxel USG

Engineering Tools & Systems

Cadence Virtuoso ┃ OrCAD PCB Designer ┃ Packet Tracer ┃ Wireshark

Other

GitHub ┃ Jira ┃ Confluence

DRIVING LICENCE

Driving Licence: B

VOLUNTEERING

1 JUL 2024 – 1 AUG 2024 Accra, Ghana
Community Development Volunteer

Youth football coaching, basic construction tasks, and educational support at an orphanage in Teshie.

Link www.dreamafricacarefoundation.org

CONFERENCES AND SEMINARS

1 APR 2025 – 30 JUL 2025 Munich
Seminar on AI Processor Design

Authored a seminar paper on Hybrid Neural Networks, analyzing the integration of spiking and artificial neural models for efficient, brain-inspired computing.