JAIME AHIJADO GARROTE

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Spain

PERSONAL STATEMENT

A dedicated Aerospace Engineer with strong experience in operations optimization, data-driven decision making, and cross-functional coordination in high-performance industrial environments. Proven ability to translate technical systems into measurable business value, streamline processes, and engage with diverse stakeholders. Internationally oriented, with strong communication skills and a growing interest in strategic market development within the aerospace, energy, industrial and MedTech sectors. Eager to contribute to projects aiming to push the boundaries of what is possible.

EDUCATION

MSc in Aerospace Vehicle Design, Cranfield University, Cranfield, UK **October 2025 - September 2026**

- **Modules:** Aircraft Aerodynamics, Aircraft Stability and Control, Aeroelasticity, Aircraft Performance, Aircraft Power Plant Installation, Aerospace System Development and Life Cycle Model, Computer Aided Design, Design of Airframe Systems, Design for Manufacture and Operation, Detail Stressing, Fatigue Fracture Mechanics and Damage Tolerance, Finite Element Analysis, Design and Analysis of Composite Structures, Initial Aircraft Design, Integrated Vehicle Health Management, Loading Actions, Landing Gear Design, Reliability Safety Assessment and Certification, Structural Stability.
- **Group Project:** BW-25 – Advanced Blended Wing Body Liquid Hydrogen Fueled Airliner.

MSc in Aerospace Engineering, Universitat Politècnica de Catalunya, Barcelona **September 2024 - September 2026**

- **Modules:** Aerospace Project Management, Aerospace Vehicles, Air Transport and Navigation Systems, Aircraft Propulsion Systems, Radiofrequency and Communication Systems, Aerodynamics, Flight Mechanics, Orbital Mechanics, Aerospace Materials, Design and Construction of Airports, Production and Design Aerospace, Rockets Combustion and Propulsion.

BSc in Aerospace Engineering, Universidad Carlos III de Madrid, Madrid **September 2018 - June 2023**

- **Modules:** Engineering Mathematics and Physics, Programming, Fluid Mechanics I & II, Thermal Engineering, Aerospace Materials I & II, Mathematical Modelling, Advanced Mathematics, Engineering Management, Control of Aerospace Systems. Aerospace Propulsion I, Aerodynamics I & II, Aerospace Design I & II, Aerospace Structures, Electronics Engineering, Advanced Spreadsheets, Mechanics of Flight I & II, Aerial Navigation Air Transport and Airports, Aircraft Systems, Biotechnology, Aeroelasticity, Helicopters and Other Aircraft, Onboard Systems Design, Space Vehicles and Orbital Dynamics.
- **Thesis Project:** Optimisation of Finite Element Method (FEM) Structures in the NaxToPy Environment.

CAREER HISTORY

Swiftair S.A., Madrid Airport, Spain, Camo Planning Engineer **July 2025 - October 2025**

- Identified operational inefficiencies and led the development of KPI-driven automation tools, reducing process time by half and improving departmental visibility for strategic decision-making.
- Collaborated in the safe, efficient, and timely execution of the airline's daily flight operations.

Idaero Solutions, Pozuelo de Alarcón, Spain, Structural Analysis And Software Development Intern **January 2024 - August 2024**

- Coordinated with engineering stakeholders to validate aerospace structural models and ensure alignment between simulation results and project requirements.
- Developed an in-house Finite Element Method (FEM) solver in Python from the ground up as the foundation for the BSc Thesis.

Jet Aircraft Services, Madrid Airport, Spain, Line Maintenance Engineer Intern **June 2023 - January 2024**

- Guided line maintenance technicians by evaluating and interpreting AMM, MPD, and SRM documentation to resolve technical issues on Airbus and Boeing work orders.
- Organised a comprehensive billing database using VBA and Excel to perform KPI analysis and track company performance, reducing the operating costs by 3%.

MSC ACADEMIC PROJECTS

- Project Management: *Cranfield*: Co-lead engine pylons team for hydrogen BWB aircraft. Deputy Lead, video/media team. *UPC*: Quality Department Lead in the aerospace project management project.
- Propulsion and Aerodynamics: Wing and control surfaces aerodynamic and aeroelastic modelling. Propulsion Models.Study of turbulent, potential and viscous flow. Interplanetary Flight, Perturbations.
- Mathematical Modelling: Data Analytics and Machine Learning. Dynamical Systems. Orbital Dynamics.

SKILLS, INTERESTS & EXTRACURRICULAR ACTIVITIES

Languages

- ***English***: Cambridge C1 (199) and TOEFL® (108/120). ***Spanish***: Native. ***French***: Intermediate.

Interests and extracurricular activities

- Avionics Engineer (Team Member), CranSEDS HPR Team – Work as part of the avionics team to design, program, and physically build the rocket's sensor suite, parachute deployment mechanism, and positioning system. Contribute to system integration, testing, and ensuring flight-ready reliability.
- Sports and Outdoors: A lifelong basketball player and amateur competitor, thriving on the fellowship and strategy of team sports. Staying active through running, swimming, exercising at the gym, and playing padel with friends.
- Social Lifestyle: Enjoy bringing people together, whether it's planning a weekend hiking trip in the mountains or capturing our experiences through photography and video editing.
- Intellectual Curiosity: Dedicate time to exploring topics beyond aerospace, with a strong interest in how technology is transforming other sectors. Particularly fascinated by innovations and advancements in medicine, medical biomechanics, and FinTech.

Technical Abilities and Soft Skills

- Problem Analysis, Mathematical Modelling, Business Development, Industrial Management.

Programming Languages, Text Editors and Engineering Software

- MATLAB, Python, Power BI, VBA (intermediate), C (elementary). Adobe Creative Cloud, LATEX, Microsoft Office package. Hyperworks, ABAQUS, Ansys, XFLR5, NASTRAN, PATRAN, GasTurb.

Volunteering

- AVINTE (2024- currently) Volunteering to promote the social inclusion of individuals with cerebral palsy by actively engaging and sharing meaningful leisure experiences with them.
- AMIWOS (2023 and 2024) Accompanied and supported homeless individuals through weekly conversations and presence, while contributing to the development and growth of the volunteering programme.

KEY ACHIEVEMENTS

- SAT® Test (2018): Scored in the top 11% of all students in the USA's university access exam (89% percentile), showing strong skills in math, reading, and problem-solving.
- Community of Madrid Excellence Award (2018): Earned a 13.048/14 in Spain's university entrance exam (EVAU), placing well above the national average.