

DOUBLE DEGREE ENGINEER IN AERONAUTICS AND MECHANICS

MSc Mechanical Engineering

Competences : Trilingual, Catia V5, CFD Ansys Fluent, Aeronautical and Mechanical control and maintenance.

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📅 05.mars.1990

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★ Disponibility: Current.



Professional Experience

Feb.2022 - July.2023 MAS4 airline consulting company.

Fleet Engineer

Medellín, Colombia.

- Responsible for the return of an aircraft to the exploiter at the end of a contract.
- Respond to discrepancies between the service provider and the lessor.

Feb.2020 - July.2020 Institut Clément Ader.

Intern in Molecular Tagging Thermometry for the analysis of gas microflows.

Toulouse, France.

- **Objective:** Research different methods of molecular tagging in micro gas flows. Build a 3D model to simulate the behaviour of the gas under a temperature gradient and observe the influence of the gradient in the density.

Jan.2016 - Nov.2016 Allianz Insurance Company.

Expert auditor for the automotive sector

Medellín, Colombia.

- In charge of assessing the structural and mechanics damages of vehicles occurred in an accident.
- Perform a compensation proposal in favor of the insured or a third party. Reporting on the repair process.

Jan.2015 - Oct.2015 Airline company Avianca Cargo.

Maintenance Engineer

Medellín, Colombia.

- Evaluate structural damage and operational safety.
- Generate repair and routing travelers, job cards and engineering orders, in order to execute repairs or preventive maintenance in Airbus A330 fleet.
- Update the corresponding Airworthiness Directive (AD) in the aircraft's fleet

Acquired skills → Teamwork, discipline, communication skills, interdisciplinary work, knowledge of microfluidics theory, project management, and expertise in aircraft safety and maintenance processes.

Education

2024 MBA International executive.

IAE Lille University School of Management.

Lille, France.

- Analytical skills training for high-level executives in international business environments..

Sep. 2020 Master Dynamics of Fluids, Energy and Transfers.

Program Co-accredited by Université Paul Sabatier III, INSA Toulouse, ISAE-SUPAERO, Mines Albi.

Toulouse, France.

- Academic and laboratory training focused on combustion, CFD, fluid control, heat transfer and systems engineering.

Feb. 2016 Double degree program in Aeronautical Engineering and Mechanical Engineering (BAC +5).

Pontificia Bolivariana University.

Medellín, Colombia.

- Academic and laboratory training focusing on aircraft and subsystem design, Aircraft structure calculation, avionics and instrumentation, machine component design, Manufacture processes, aircraft and helicopter propulsion, maintenance (GMM, SRM, CMM, AMM, TSM, MPD, ESM, SPM), and aviation regulations (EASA, FAA, LAR)

FRANCO BARBOSA Esteban

Technical skills

- **Coding Language:** Matlab, Python.
- **Software:** Catia V5, Solid Works, Solid edge, AMOS, Ansys Fluent, DOORS, Audatex.
- **Operative System :** Linux, windows.

Languages

- **Spanish :** Native Language
- **English:** Professional Proficiency
- **French:** Advanced (Certificate DELF B2)

Interests and Activities

Volleyball, football, tennis, travelling, films, foreign languages, cooking.

Complementary Education

- **2017 - 2018 French as a foreign language.**
Nantes University. *Nantes, France.*
- **2015 Fundamentals of Aircraft Certification.**
84-hour programme. Pontificia Bolivariana University. *Medellín, Colombia.*
- **2014 Fundamentals of hydraulics.**
82-hour programme. Salazar y Herrera institution. *Medellín, Colombia.*
- **2013 Project management for engineers**
86-hour programme. Pontificia Bolivariana University. *Medellín, Colombia.*