

PEDRO AGUILERA VASSALO

MASTER STUDENT IN AEROSPACE ENGINEERING

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SUMMARY

A Masters student in Aerospace Engineering with high international and diverse academic experience. Looking for an internship for the winter semester of my last year of masters. *For extra information, please check my website shown above.*

EDUCATION

Msc Aerospace engineering TFM-ASA | BTU COTTBUS (GERMANY) Sep 2022 - Currently

- International joint master degree performed in three different universities (Boredeaux University, UCLouvain and BTU Cottbus) in the three countries of France, Belgium and Germany.
- High level of content in CFD (and Turbulence modeling), Fluid mechanics, Aerodynamics, FEM and composites among others. Each university focuses in its own specialty.

BEng Motorsport engineering | COVENTRY UNIVERSITY (UK) Sep 2018 - May 2021

- Engineering degree accredited by the Institute of Mechanical Engineers (IMechE) made to prepare student for design, testing and production of performance vehicles or become part of a racing team responsible for improving performance before, during and after a race.
- Specialty taken on Aerodynamics and CFD. A design development project of an original eVTOL and a group project based on the Formula Student were performed, by the usage of 3D CAD for modeling (CATIA v5) and CFD (Star CCM+) for simulation. **Bachelors final mark: 65%.**

TECHNICAL SKILLS

CFD	STAR CCM+, OpenFoam
CAD	CATIA v5
Programing	Python, MATLAB
FEM/FEA	ABAQUS, Hypermesh
Other	Latex, Notion

LANGUAGES

Spanish	Native
Portuguese	Native
English	Fluent
German	Approximately A2 level

EMPLOYMENT HISTORY (FINANCIAL PORPUSES)

Kitchen staff (Chef)

- **LINE CHEF** | BENITO'S HAT (OXFORD, UK) 10-2017 – 6-2018
- **KITCHEN MEMBER** | SOTNEGATE (THE PHOENIX, COVENTRY, UK) 10-2018 – 2-2020
- **PREP. CHEF** | NEW WORLD TRADING COMPANY (THE BOTANIST, COVENTRY, UK) 2-2020 – 4-2021
- **COMMIS CHEF** | THE HARDIMAN HOTEL (GALWAY, IRELAND) 9-2021 - 2-2022

Skills and tasks:

- **TEAMWORK:** Being able to work in a good environment and synergy in the team at moments of high stress.
- **KITCHEN AND BUSINESS MANAGEMENT:** Carrying out with the kitchen duties and planing to have a more effective and safer kitchen. Carrying responsibilities such as stock counting, doing orderings to the suppliers, checking delivery quality, and accomplishing with food safety laws. Dealing with extreme and stressful situations.

- **COMMUNICATION AND PERSONAL TREATMENT SKILLS (COSTUMER SERVICE):** Working in the front house serving food and dealing with clients in a good customer service manner.

Life-guarding and first aids

SWIMMING POOL LIFEGUARD | ALKYMIA (GALAPAGAR, SPAIN)

Summers of 2022 and 2023

Tasks done:

- Look out for the safety and security in the water, and make sure that the rules are being followed.
- Take care of the swimming pool machinery (cleaning and maintenance).
- Take care of the conditions of the water (cleanliness, ph, chlorine levels, etc.)

PROJECTS AND EXTRACURRICULAR ACTIVITIES

University projects

- **Individual and group project:** They consisted in the development aerodynamic shapes and devices, being in the individual one for an original design of an eVTOL vehicle and the group one for the rear wing of the Formula Student with the aim of reducing the drag of the design and optimizing the drag-to-lift ratio. In these projects there was used CATIA and STAR CCM+ for the design and the CFD analysis, and extensive literature review was performed.
- **FEM/FEA Projects:** Projects based on structural analysis by making use of the commercial software ABAQUS and Hypermesh.
- **Other numerical projects:** Projects based on the discretization of shock wave theory and wing theory formulation for the study of wings in supersonic and subsonic conditions.

EXTRACURRICULAR ACTIVITIES

- **Teaching Spanish and English** to high school and university students.
- **Volunteering** in an ONG called EVANGGHANA (End Violence Against the Next Generation Ghana) in the summer of 2014 by teaching mathematics to underprivileged children in Ghana.
- **Hobbies:** Exercising, Formula 1, reading and playing guitar.