Facundo Adrian Biaggio

Aerospace Engineer

- +61 04 9324 6385
- facundobiaggio@gmail.com
- linkedin.com/in/facundoabiaggiocfdengineer/
- Full working rights under 462 visa.
- Argentinian passport.
- Available for Relocation

I am an aerospace engineer with a strong background in Computational Fluid Dynamics and CAD design and manipulation. I have experience working in projects for the aerospatial and nuclear industry, thus familiar with high level engineering environments. I am a highly adaptable professional with a notable capacity for learning, enabling me to tackle new challenges with ease. References available upon request

EXPERIENCE

CFD Analyst Engineer   **SEP 2023 – JUL 2025**
Comisión Nacional de Energía Atómica (National Atomic Energy Commission), CABA, Buenos Aires, Argentina

CFD analyst in the Thermohydraulics department for the CAREM25 project.

- Calculation and design of thermohydraulic systems and components for primary and secondary circuits..
- Simulations of containment breach scenarios for Containment Qualification.
- Work alongside an interdisciplinary team.
- Multiphase inner flow CFD analysis in small diameter domains..
- Developing and documentation of Technical Reports.

Student Assistant with part-time dedication   **FEB 2022 – AUG 2023**
Universidad Nacional de la Plata (National La Plata College), La Plata, Buenos Aires

Teaching Assistant for Fluid Mechanics courses and Computational Fluid Mechanics Postgraduate Courses, performing theoretical and practical classes for students, leading wind tunnel experiments as well as in field practical exercises.

Research Intern   **OCT 2021 – AUG 2023**
Centro Tecnológico Aeroespacial (Aerospace Technology Center), La Plata, Buenos Aires

Intern at the Computational Fluid Dynamics Group (GFC).,
- Design, Development and testing of sheet metal manufacture-based components for cubeSats.
- Parametrization of nozzles and feed valves for space engines for the National Commission on Space Affairs (CONAE).
- Optimization of components for CNC metal sheets cut out, reducing wasted metal down 35%

EDUCATION

Aerospace Engineering (Mechanical oriented)   **AGO 2018 - MAY 2023**

Universidad Nacional de la Plata (National La Plata College), La Plata, Buenos Aires

- Finalist participant in the CubeSat OpenSpace competition, 2020 edition.
- Participant in the ISSSP (International Space Science and Scientific Payload Competition), 2022 edition.
- Elective courses in "Space Propulsion Systems" and "Orbits, Trajectories, and Performance."
- Assistant and collaborator in the postgraduate course "Introduction to Computational Fluid Mechanics" (IMFC), from 01/08/2022 to 14/12/2022.

Electrician Fitter   **FEB 2018- AGO 2018**

Centro de Formación Profesional N° 1672, Trelew, Chubut
- Installation, repair, and design of residential electrical circuits.

Civil Engineering (Basic Cycle)   **MAR 2016- DIC 2017**

Universidad Nacional Patagonica (Patagonian National University), Trelew, Chubut

- first 2 years of engineering education.

COURSES

- Postgraduate Course in Introduction to Computational Fluid Mechanics (IMFC), National University of La Plata (UNLP).
- Online Course in Astronautics and Manned Space Flight Systems, edX.
- Online Course in Introduction to Engineering Simulation Methods, edX.
- Online Course in Introduction to Aeronautical Engineering, Delft-X.
- Online Courses for use of GOTHIC provided by Numerical Advisory Solutions.

VOLUNTEER EXPERIENCE

- **Volunteer Assistant Paleontologist Technician.** Egidio Feruglio Museum (MEF), Trelew, Chubut (2016)
- **Argentine Explorer of Don Bosco.** Battalion No. 42 "Padre Mario Maina," Trelew, Chubut (2011-2017)

SKILLS

- **Text Processing / Visualization:** Microsoft Office (Word, Excel, PowerPoint), LaTeX, MikTeX, Canva.
- **Engineering Software:** Profili, X-foil, Tornado, CEARAN, RPA, Anydesk, Gmat.
- **Analysis and Simulation Software:** Ansys Fluent, SpaceClaim, AutoCAD, SolidWorks, MATLAB, GOTHIC, OpenFOAM.
- **Languages:** English (Advanced Level, EFSET 74 Proficient CEFR C2), Spanish (Native speaker).