

AGUSTÍN STROHMAYER

Mechanical Engineering — Design, Simulation (CFD / FEA) & Systems

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PROFILE

Mechanical engineering student in the final stage of my degree at the University of Buenos Aires (FIUBA): all coursework completed, final thesis in progress, graduation expected in Q4 2026. I worked as systems engineer on a complete CubeSat mission study at Sapienza Università di Roma, responsible for the feasibility of every subsystem and the interfaces between them, and I currently lead the aerodynamics team of FIUBA Racing, where I built and run a full CAD-CFD-test development loop and its integration with the rest of the car. Comfortable working across disciplines, tracking technical budgets and defending design decisions in review.

EDUCATION

Diploma in Mechanical Engineering — Universidad de Buenos Aires (FIUBA) 2018 – present

Buenos Aires, Argentina

- All coursework completed. Final thesis in progress — expected graduation: Q4 2026.

Exchange — Aerospace & Aeronautical Engineering, Sapienza Università di Roma 02/2023 – 08/2023

Rome, Italy

- Spacecraft Design: systems engineer in an integrating student project developing a complete CubeSat mission with 10+ students from different countries — responsible for supervising and guaranteeing the feasibility of each subsystem and the interfaces between them.
- Rocket propulsion fundamentals.
- Aeronautical regulations for general aviation, aircraft maintenance types and fleet management.
- Italian language, level A2.

English language exchange — Millfield School 07/2018 – 08/2018

Street, United Kingdom

Secondary education — Instituto San Martín de Tours 2008 – 2018

Buenos Aires, Argentina · National Flag Bearer (highest academic average of the year)

FINAL DEGREE THESIS

Aerodynamic package of a Formula SAE car: CFD design and experimental validation 03/2025 – present

Facultad de Ingeniería, Universidad de Buenos Aires

- Development and design of a complete aerodynamic package, applying state-of-the-art surface modelling methodologies.
- Numerical simulation of the package by CFD: meshing, case setup, solving and post-processing, with geometry optimisation loops.
- Design of an empirical measurement system to validate the simulation results, mounted in the towing tank of the Faculty of Engineering (UBA).
- Development of protocols and applications so that future iterations of the work can be run repeatably.

ENGINEERING EXPERIENCE

Aerodynamics Team Lead — FIUBA Racing Team (Formula SAE) 03/2024 – present

Buenos Aires, Argentina · fiubaracing.com.ar/subsystems/aero

- 3rd place in Aerodynamics at Formula SAE Brazil 2026 — achieved with the team's first car ever to reach competition.
- Lead the end-to-end development of the team's aerodynamic package, using parametric and organic design methods and exploring unconventional approaches to maximise performance.
- Developed and run the CFD workflow: meshing, setup, analysis and post-processing, and the trade-off studies behind each configuration.
- Coordinate with the other interdisciplinary sub-teams to negotiate interfaces, packaging and mass constraints, and ensure global design integration.
- Developing conventional and unconventional empirical test methods to validate simulations and support data-driven optimisation.

Teaching Assistant (ad honorem) — Introduction to Computational Fluid Mechanics (TB133), FIUBA 08/2025 – present

Buenos Aires, Argentina

- Support students in the theoretical and practical foundations of computational simulation methods applied to fluid mechanics.
- Participate in theoretical and practical presentations in class.

Founder — Pedidos3D, additive manufacturing venture 2020 – 2023

Buenos Aires, Argentina

- Design, modelling, analysis, simulation, optimisation, production and sale of 3D-printed parts, from customer requirement to delivered component.
- Extensive knowledge of both software and specialised hardware for FDM technologies, including design for manufacture and machine maintenance.

TECHNICAL SKILLS

CAD Siemens NX, CATIA, SolidWorks, Autodesk Inventor, Fusion 360, Onshape, Shapr3D, CAESSES, AutoCAD / AutoCAD Mechanical

Simulation Ansys Workbench (structural FEA and CFD), OpenFOAM, Engys HELYX, MATLAB

Programming Python, Git / GitHub, Arduino

Other Blender, Ultimaker Cura, Microsoft Power BI, Microsoft Office 365, FDM additive manufacturing (hardware and process)

LANGUAGES

Spanish Native.

English C2 — Cambridge C1 Advanced certificate, score 199/210 (2017).

Italian B1.

AWARDS

- 3rd place — Aerodynamics, Formula SAE Brazil 2026, as Aerodynamics Team Lead of FIUBA Racing. First car the team ever brought to competition.
- National Flag Bearer (Abanderado Nacional) — highest academic average of the graduating class, Instituto San Martín de Tours, 2018.
- Cambridge C1 Advanced — 199/210, 2017.