

Teich, Juan Ignacio

📍 Buenos Aires, Argentina
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✉ juanignaciotcich@gmail.com
📅 25 years
⚙ Mechanical Engineer
🐙 GitHub profile: [jteich99](#)

PROFESSIONAL OBJECTIVES

To continue my professional career, pursuing challenging projects and applying the skills acquired in my academic journey, while acquiring new skills and tools for my professional career.

I aim to focus on simulation and its development, working on taking key mathematic and physics concepts into code to address and better understand industry problems.

WORK EXPERIENCE



April 2024 – August 2024

Mechanical Engineering Thesis

Grupo de Energías Renovables - CSC - CONICET

I completed my Mechanical Engineering Thesis titled: 'Parametric study of actuator discs for wind turbine simulation' ([link to thesis in spanish](#)).

Main tasks:

- Carry a bibliographic research on actuator discs models for wind turbine simulation.
- Develop the researched models' algorithms into OpenFOAM as a new source term.
- Run simulations in CONICET's cluster TUPAC.
- Generate multiple plots and metrics for comparing the actuator disc models performance in simulations.

Skills and tools:

- OpenFOAM, snappyHexMesh, Python, Object Oriented Programming, Bash, Linux, Algorithms, C++, LaTeX, SSH, HPC, GitHub



October 2023 – April 2024

Numerical Simulations Specialist

STÄMM Biotech

Responsibilities:

- Enhance meshing strategies for complex repetitive structures.
- Develop and run CFD simulations to validate and further improve existing in-house indirect simulation models.
- Elaborate post-processing scripts, for various types of OpenFOAM simulations and python simulation scripts.
- Formulate OOP code to further develop in-house indirect simulation model.

Skills and tools:

- OpenFOAM, Code_Saturne, snappyHexMesh, Salome Geometry and Meshing modules, Python, Object Oriented Programming, Bash, Linux, Algorithms, C++, LaTeX, GitHub



November 2022 – October 2023

Junior Project Engineer

Saint-Gobain Argentina

Responsibilities

- Lead strategic projects, including analyzing the company's needs for business continuity, basic project design, and implementation.
- Coordinate multidisciplinary teams and stakeholders, seeking consensus solutions within scope, time, and available budget.
- Provide technical support and analysis for acquisitions of new businesses at regional level.

Skills and tools:

- AutoCAD, SolidWorks, MS Excel, MS PowerPoint, MS Planner, MS Project.



March 2020 – March 2021

Teaching Assistant in Thermodynamics course

Faculty of Engineering, University of Buenos Aires

Mechanical Engineering Department

EDUCATION



2017 – 2024

Mechanical Engineering

Faculty of Engineering, University of Buenos Aires

- **Thesis - Parametric study actuator discs for wind turbine simulation.**
 - CSC - CONICET - Argentina.
 - Director: Alejandro Otero, PhD.
 - Co-Director: Dimas Barile.
 - Link to thesis in spanish.



2011 – 2016

Bilingual High School

Colegio Holy Cross

COURSES



Sep. 2021 – Nov. 2021

A Hands-on Introduction to Engineering Simulations

edX & Cornell University

- ANSYS course

SKILLS

Languages

English - fluent

- IGCSE Certificates, Universidad de Cambridge

French - basic

- A1 and A2 certificates