Teich, Juan Ignacio

🏳 Argentinian and Spanish citizen
📍 Buenos Aires, Argentina
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✉ juanignacioteich@gmail.com
📅 22-03-1999 — 24 years

PROFESSIONAL OBJECTIVES

Continue my professional and academic career pursuing challenging projects in a PhD and applying the skills acquired through my journey so far.

I aim to focus on simulation and it's development to adress and better understand industry problems.

EDUCATION

UBAfiuba
FACULTAD DE INGENIERÍA

2017 – Present

Mechanical Engineering

Faculty of Engineering, University of Buenos Aires

- 6 year degree
- **Thesis in progress - Parametric analysis of actuator disks models to simulate wind farms.**
  - Own development and coding of actuator disks models (ADM).
  - Analysis and comparison of ADM in uniform flow and atmospheric boundary layer flow conditions, considering wake interference and computational cost.
  - Including, but not limiting to: mesh sensibility studies, wake interference studies, inlet velocity sensitivity analysis.
  - CSC - CONICET - Argentina.
  - Director: Alejandro Otero, PhD.
  - Co-Director: Dimas Barile.
- Thesis completion date: july 2024.

2011 – 2016

Bilingual High School

Colegio Holy Cross

WORK EXPERIENCE

STÄMM

October 2023 – Present

Numerical Simulations Specialist

STÄMM Biotech

Responsabilities:

- 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.
- Run and post-process CFD simulations of complex repetitive structures with laminar flow.

Skills and tools:

- OpenFOAM, Code_Saturne, Salome Geometry and Meshing modules, Python, Object Oriented Programming, Bash, Linux

SAINT-GOBAIN

November 2022 – October 2023

Junior Project Engineer

Saint-Gobain Argentina

Responsabilities:

- Lead strategic projects, including analyzing the company's needs for business continuity, basic project design, and implementation.

Skills and tools:

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

UBAfiuba
FACULTAD DE INGENIERÍA

March 2020 – March 2021

Teaching Assistant in Thermodynamics course
Faculty of Engineering, University of Buenos Aires
Mechanical Engienering Department

COURSES

edX

Sep. 2021 – Nov. 2021

A Hands-on Introduction to Engineering Simulations
edX & Cornell University
- ANSYS course

SKILLS

Languages

English - fluent
- IGCSE Certificates, Cambridge University

French - basic
- A1 and A2 certificates

Software and
Programming Languages

Autodesk Fusion 360
MS Office (Excel, Word, PowerPoint, Project)
AutoCAD
ANSYS
LaTeX
OpenFoam
MatLab
SolidWorks
Linux
Python
Object Oriented Programming
Code_Saturne
Salome Geometry and Meshing Modules