JOÃO VICTOR DE SOUZA TORRES

- 24 ans
- Brazilian

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Engineer, PhD student - Characterization of Gas-Solid Injection into Fluidized Bed Reactor for Biomass Wastes Valorization

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ABOUT ME

- Curious, autonomous and social person. Very interested by modeling and simulation of processes as well as the interpretation of experiments

PERSONAL INTERESTS

- Experienced chess player.
- Reading.
- Cinema.

LANGUAGE

- Portuguese - mother tongue.
- French (DELF B1).
- English C1. (TOEIC 970/990)
- Intermediate spa .
- Basic Dutch.

EDUCATION

PROCESS ENGINEERING - ÉCOLE NATIONALE SUPÉRIEURE EN GÉNIE DES TECHNOLOGIES INDUSTRIELLES (ENSGT) - COMPUTER AIDED PROCESS DESIGN
2022 - 2024

- Unit operations, mass and heat transfers, fluid mechanics, reactors technology, thermodynamics, modeling and simulation of processes, CFD.

CHEMICAL ENGINEERING - UNIVERSIDADE FEDERAL DO RIO GRANDE DO NORTE (UFRN) - BACCALAUREATE
2019 - 2024

- Organic and inorganic chemistry, process sinulation, heat and mass transfers, fluid mechanic, modeling of processe.

EXPERIENCES

PhD student - IFP - Energies Nouvelles.
November 2024 - October 2027
- Characterization of Gas-Solid Injection into Fluidized Bed Reactor for Biomass Wastes Valorization.
- Experiments with particulate systems.
- Modeling and CFD simulation.

Intern at Siemens Lyon.
April 2024 - September 2024
- Modeling of liquid-vapor equilibria in non-stationary processes for the condensation of multiple species using Peng-Robinson's equation

Research Intern at Karel de Grote University, Belgium.
June 2023 - September 2023
- Analysis and Clustering of Gins using different algorithms for the implementation of an AI

Teacher assistant - PET, UFRN, Brazil.
2020 - 2021

- Computation for chemical engineering.
- Thermodynamics.
- Equilibrium thermodynamics.

SOFTWARE

Coding

- Fortran.
- C/C++.
- Python (pandaS, Scikit-learn).
- VBA.

Simulation / General
- Simcenter Amesim
- PowerBI.
- gPROMS.
- Fluent.
- ProSim.
- AIMMS.
- Pack Office.