Claudemi Nascimento

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Education

West Virginia University — Morgantown, West Virginia
Ph.D. in Chemical Enginerring — *Jan 2022 – Present*

Federal University of Campina Grande — Paraíba, Brazil
M.Sc. in Chemical Enginerring — *September 2018 – December 2021*
B.Sc. in Chemical Enginerring — *May 2013 – August 2018*

Research Experience

West Virginia University — Morgantown, West Virginia, USA
Graduate Research Assistant — *Jan 2022 – Present*
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West Virginia University — Morgantown, West Virginia, USA
Graduate Research Assistant — *Jan 2022 – Present*
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Experience

West Virginia University — Morgantown, West Virginia, USA
Graduate Research Assistant — *Jan 2022 – Present*
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National Energy Technology Laboratory — Morgantown, West Virginia, USA
Researcher — *Jan 2023 – Jun 2023, Contractor from Leidos Research Support Team*

- Analysis of data from the commercial power generator
- Employ typical and emerging system identification methods to evaluate alterations in the control states
- Provide input to the final presentation to be presented to the power generator customer

Federal University of Campina Grande — Campina Grande, Paraíba, Brazil
Graduate Research Assistant and Developer — *Sep 2018 – Dec 2021*
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Coteminas A. S. — Campina Grande, Paraíba, Brazil
Industrial Engineer — *Jan 2018 – Aug 2018, Internship*
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Federal University of Campina Grande — Campina Grande, Paraíba, Brazil
Undergraduate Researcher — *Dec 2015 – Dec 2017, Part-time*

- Development of improvements for the BR-Ex, assistant software forhazardous area classification
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Selected Research Publications - Complete list on my Google Scholar.

José J.N. Alves, Antônio T.P. Neto, Antônio C.B. Araújo, Heleno B. Silva, Sidinei K. Silva, Claudemi A. Nascimento, and Aurélio M. Luiz. "Overview and experimental verification of models to classify hazardous areas". In: *Process Safety and Environmental Protection* 122 (Feb. 2019), pp. 102–117. DOI: 10.1016/j.psep.2018.11.021.

Paloma L. Barros, Aurélio M. Luiz, Claudemi A. Nascimento, Antônio T.P. Neto, and José J.N. Alves. "On the non-monotonic wind influence on flammable gas cloud from CFD simulations for hazardous area classification". In: *Journal of Loss Prevention in the Process Industries* 68 (Nov. 2020), p. 104278. DOI: 10.1016/j.jlp.2020.104278.

Claudemi A. Nascimento, Aurélio M. Luiz, Paloma L. Barros, Antônio T.P. Neto, and José J.N. Alves. "A CFD-based empirical model for hazardous area extent prediction including wind effects". In: *Journal of Loss Prevention in the Process Industries* 71 (July 2021), p. 104497. DOI: 10.1016/j.jlp.2021.104497.

Awards & Achievements

Graduated with Honors: Awarded to bachelor students who have obtained their degrees with the highest GPA in class for the current year by Federal University of Campina Grande. (Aug 2018)

Skills

Programming: C#, Python, MATLAB, R

Technologies: Git, SQLite

Softwares: Ansys CFX, Aspen Plus, AVEVA Process Simulation

Languages: English and Portuguese

Relevant Coursework

Major coursework: Transport Phenomena, Advanced Chemical Engineering Thermodynamics, Chemical Reaction Engineering, Statistical and Numerical Methods for Chemical Engineering

Minor coursework: Artificial Inteligence Techniques, Electrochemial Energy Technologies, Advanced Process Systems Engineering