



Leonardo Galvis

Mechanical Engineer & Data Analyst

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EDUCATION

•MBA Data Science and Analytics

USP ESALQ

Thesis: AUTOMATION OF DASHBOARD FOR PERFORMANCE ANALYSIS

São Paulo, Brazil

Jan 2021 - Dec 2022

•Bachelor in Mechanical Engineering

Universidad Industrial de Santander

Thesis: MODELLING OF GUIDED WAVES DISPERSION CURVES ON A PLATE

Bucaramanga, Colombia

Jan 2011 - Sept 2019

• Exchange student for one year.

Student Exchange

Universidad Del Norte

Barranquilla, Colombia

2014 II – 2015 I

EXPERIENCE

• Goldwind South America

Technical Specialist

August 2021-Present

São Paulo, Brazil

- Managed a remote operation center team overseeing 500+ MW wind farms in Brazil, Chile, and Greece, ensuring strict compliance with customer requirements and ONS (National Electric System Operator) basic regulation, while monitoring operations 24/7 and overseeing preventative and corrective maintenance processes.
- Utilized data analytics tools to continuously monitor and analyze real-time turbine performance, developing performance dashboards, generating weekly and monthly reports, and identifying opportunities for enhancing performance metrics.
- Collaborated extensively with Operation and Maintenance (O&M) teams and technical support teams to plan and execute maintenance schedules, actively contributing insights for improved key performance indicators (MTBF, MTTR, etc)
- Utilizing Python data visualization libraries, employ precise techniques to graph specific parameters, ultimately enhancing the performance of wind turbines.

• Goldwind South America

Technical Support Trainee

January 2020 -August 2021

São Paulo, Brazil

- Develop technical training materials and presentations.
- Provide support for basic analysis and queries within Goldwind's SCADA system.
- Offer assistance in translating and implementing quality processes.

• SIAR LTDA

Internship

January 2019 - July 2019

Bucaramanga, Colombia

- Selection of a dehumidifier for warehouse file storage.
- Overseeing the installation of mechanical extensions for bookshelves.

• Expotur S.A.S.

Interpreter & Helper Guide

January 2019 - July 2019

Santa Marta, Colombia

- Providing translation assistance for tourists who don't speak Spanish and taking responsibility for the safety of the tourist group during a 4-day hiking tour through multiple camps.
- Motivate the group to achieve the daily goals in the established times

• Universidad Industrial de Santnader

Intern

January 2018 - July 2018

Bucaramanga, Colombia

- Maintenance training helping with the Air Conditioning Equipment and the inventory.
- Develop knowledge in HVAC

PUBLICATIONS

•“Modelling of Guided Waves Dispersion Curves on a plate” Galvis, Leonardo (2019).


- In *Institute of Physics*

 [Article Link](#)

PROJECTS

–Wind Farm Operation Performance Dashboard

Power BI, KPIs

 [Link](#)

- * Develop, together with the remote centre operators, a database of descriptive data from monitoring the operation
- * From the data available in SCADA, create a dashboard to monitor the main measures of the wind farm: Wind, Generation, and Frequency of faults
- * With the help of Power BI, generate daily, weekly and monthly reports that help track indicators such as MTBF and MTTR

–Develop Work Procedures and Instructions

ISO 9001

- * Develop the general procedure for the remote operation center, following national requirements, and standardizing it with the other Remote center globally (Asia, Australia and North America)
- * Develop specific Work instructions for specific Operators task following the ISO 90001 requirements

TECHNICAL SKILLS

Mechanical Engineering: Finite Element Analysis (FEA), Vibration Analysis.

Languages: Python, C++

Data Visualization : Pandas, Matplot, Seaborn, Dash and Plotly

Relational Database: PostgreSQL

Big Data: PySpark

Engineering software: Ansys, MATLAB, SolidWorks

Office Package: Word, Excel, Power BI, Visio, PowerPoint and SharePoint

Mechanical Engineering: Finite Element Analysis (FEA), Vibration Analysis.

Areas of Interest: Operation and Maintenance, Technical Support, Vibrational Analysis Monitoring, Data Visualization, Data Science, Sustainability, Renewable Energy, Energy Markets

Soft Skills: Communicative, Responsible, Motivator, Leader, Creative, Team-Worker, Strategic, Patience and Self Learning

LANGUAGES

Spanish: Native, Bilingual

English: Fluent, Full Professional

Portuguese: Fluent, Full Professional

French : Limited Working

COURSES

DataCamp: Analyzing IoT Data In Python, Streamlined Data Ingestion with pandas, Building Dashboards with Dash and Plotly, Introduction to PySpark, Big Data with Spark, Git Hub Concepts, Analyzing Business Data in SQL

Udemy : Basic-Advanced Photovoltaic Solar Energy, Fast MBA Lead - Leadership and People Management, Microsoft Power BI Desktop for Business Intelligence

LinkedIn: Learning Python, Programming Foundations

Technical University of Denmark: Wind Energy

University of Michigan: Python Data Structures, Programming for everybody

Global Wind Organisation: First Aid First Aid, Working at Heights Working at Heights, Manual Handling