Gary Luna

 ProgIngQmc | Gary Luna Cuaquira |
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Professional Summary

Chemical Engineer with a strong focus on programming, modeling, and numerical simulation. Dedicated to problem analysis and resolution through the use of mathematical models and advanced process simulation techniques. click here.

Work Experience

Control Room Operator - Ammonia Plant   March 2024 - present

Startup, shutdown, and operation of equipment (pumps, turbines, fans, static equipment) from the control panel. Support to the Engineering department in root cause analysis, hydraulic system design, and process simulation.

Junior Control Room Operator - Ammonia Plant   April 2022 - February 2024

Operation of plant systems from the control room and support to engineering in failure diagnostics and simulations.

Junior Field Operator - Ammonia Plant   February 2020 - March 2022

Field operation, startup, and shutdown of plant equipment. Participation in projects related to hydraulic system analysis and simulation.

Laboratory Assistant - Petrochemical complex   August 2018 - February 2020

Sampling and analysis of liquids, solids, and gases in Utilities, Urea, and Ammonia plants. Support for process improvement projects in collaboration with the Operations and Engineering teams.

Critical Support Systems Assistant - Bagó laboratories   December 2016 - August 2018

Management of critical support systems: purified water generation, steam, compressed air, and HVAC systems.

Projects

Process Condensate Pumping System

Designed a process condensate recovery pumping system. Conducted hydraulic calculations and pump sizing for system implementation.

Education

2024 - 2025	Master's in Mathematical Engineering and Computing - **Universidad Internacional de La Rioja**	(Grade: 9.0/10.0)
2023 - 2024	Master's in Artificial Intelligence - **Universidad Isabel I**	(Grade: 9.5/10.0)
2008 - 2016	Bachelor's in Chemical Engineering - **Universidad Mayor de San Andrés**	(Grade: 86.45/100.0)
2013 - 2015	Teacher Assistant - **General Chemistry Laboratory and Transport Phenomena** Research Assistant - **Numerical Modeling and Simulation**	

Technical Skills

LaTeX	Basic, technical and academic document editing.
PipeFlo	Basic, fluid systems modeling and simulation.
Python	Basic, object oriented programming
Matlab	Basic, simulation and modeling of chemical process
R	Basic, statistical programming and data analysis
Power BI	Basic, visualization and data analysis
Visual Basic (Excel Macros)	Intermediate, spreadsheet automation for various applications.
Aspen Hysys / Aspen Plus	Intermediate, chemical process modeling and industrial equipment simulation.