Ruben J Romo

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Skills

CAD: AutoCAD, ASPEN Plus, PFDs , CFD
Analysis: ASPEN, PowerBI, Python, HAZOP, SPC, LCA, SACHE
Language: English, Spanish
ERP: SAP

Experience

Plant Production Manager, PAPELERA NACIONAL – Marcelino Maridueña, Ecuador *July 2025 – Present*

- I lead multidisciplinary teams in the different stages of the recycled paper production process, controlling equipment critical variables and drying thermodynamics.
- I supervise the chemical treatment of paper and the comprehensive production management, ensuring compliance with quality, safety, and environmental standards.

Senior Plant Production Supervisor, QUIMPAC – Guayaquil, Ecuador August 2022 – March 2025

- Supervised the production of flocculants for water treatment (aluminum sulfate, polyaluminum chloride, ferric chloride) with a team of +40 people, achieving a 15% efficiency increase, a 10% cost reduction, and constant compliance with quality, safety, and environmental standards.

Junior Plant Production Supervisor, QUIMPAC – Guayaquil, Ecuador March 2021 – August 2022

- Supervised a team of 3 people in solvent and hydrocarbon derivative blending processes, overseeing caustic soda dilutions, solids blending, dispatch, and billing, while ensuring operational efficiency, precision, industrial safety, and staff training.

Plant Process Trainee,QUIMPAC – Guayaquil, Ecuador January 2021 – March 2021

- Supervised 24/7 operations in a chlor-alkali plant, managing critical processes such as ammonia thermodynamics, electrolytic brine processing, HCl synthesis, and chlorine gas liquefaction.

Projects

Ferric Chloride Dilution Optimization

- Designed and initiated the study to optimize the ferric chloride dilution process, resulting in improved times, quality, and raw material savings. This optimization is already implemented in the production process.

Master's Thesis: Valorization of Polyaluminum Chloride Sludge

- Conducted research on the valorization of polyaluminum chloride sludge, developing sustainable strategies for waste reuse and resource optimization in industrial water treatment processes using neural networks and artificial intelligence.

Mobile and Desktop Application Development

- Developed various applications currently available on Google Play, as well as other applications to facilitate operational management in my previous position, as well as desktop executables.

The Church of JesusChrist of LatterDay Saints - Full Time Missionary March 2011 – April 2013

- Engaging in community service and gospel preaching.Led a team of over 50 missionaries from different countries and oversaw daily and weekly activities to ensure mission key performance indicators were met

Education

ESPOL – M.S. in Chemical Engineering with a specialization in Process Engineering January 2026
ESPOL – B.S. in Chemical Engineering January 2021