Carlo Roberto Ramos López
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Education

Rowan University- Henry M. Rowan College of Engineering, Glassboro, NJ
Bachelor of Science in Chemical Engineering, May 2026
Minor: Mathematics, Chemistry

Mercer County Community College, West Windsor, NJ
Associate of Science, Dec 2022
Major: Engineering Science

Skills

Technical Tools: Python, MATLAB, Aspen Plus, AutoCAD, Microsoft Office, Google Workspace
Laboratory Equipment: HPLC, UV Vis, TGA, Keyence Visual Microscope, Electron Microscope.
Languages: English, Spanish

Work Experience

Mexican Mariachi Grill, LLC- New Jersey
General Manager - August 2019 - May 2026

- Manage operations across six restaurant locations, ensuring quality, efficiency, and customer satisfaction.
- Oversee payroll, inventory, vendor relations, and cost control to improve profitability.
- Lead and train teams of 30+ employees, implementing standardized procedures and operational systems.

CSPE Laboratory- Rowan University, NJ
Research Intern - June - August 2025

- Performed image analysis to quantify impurities in dye crystals formed under microgravity conditions (ISS-related research).
- Used Keyence microscopy and HPLC to evaluate crystal structure and purity.
- Presented results to support optimization of crystallization processes.

International Process Plants - Princeton Junction, NJ
Equipment Sales Engineer - June – August 2026

- Represented the company at industry trade shows, engaging prospective customers and discussing process equipment needs.
- Assisted customers in identifying and evaluating available chemical process equipment from company inventory.

Gale Process Solutions – Princeton Junction, NJ
Project Support Engineer – August 2026 – Current

- Support the development and execution of custom chemical process equipment projects, including alloy reactors, glass-lined reactors, and fermenters.
- Review customer specifications and define process and mechanical requirements.
- Evaluate vendor quotations, technical proposals, and engineering drawings to assess compliance with project requirements.
- Prepare technical and commercial proposals and coordinate with customers, sales teams, and manufacturers throughout project development.

Research Experience

Pharmaceutical Engineering Clinic Project- Rowan University, NJ
Undergraduate Research Assistant- September 2025-May 2026

- Developed image analysis methods to quantify impurities in dye crystals for microgravity crystallization studies.
- Applied microscopy (Keyence) and HPLC to analyze crystal formation and quality.
- Supported research aimed at improving pharmaceutical crystallization in space environments.

Carbon–Carbon Composites Clinic Project – Rowan University, NJ
Undergraduate Research Assistant- September 2024-May 2025

- Analyzed mechanical and thermal properties of carbon–carbon composites for aerospace and space applications.
- Evaluated material performance under extreme conditions relevant to out-of-space environments.
- Contributed to research on advanced materials for high-temperature structural use.

Awards

2026 Chemical Engineering Research Award at Rowan University

- Recognized for research using image analysis to estimate the purity of dyed crystals from crystallization experiments conducted aboard the International Space Station.

Personal Activities & Interests

- Enjoy playing the piano and developing musical skills
- Recently started playing golf