

Daniel Folino Haendler

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Education

University of Colorado Boulder - Boulder, CO

June 2020 - May 2025

GPA: 3.6

Majors: BS Chemical Engineering

Experience/Project Work

Hospital Angeles - Mexico City, Mexico

General Intern

May-June 2019

- Shadowed medical staff to gain practical experience in a healthcare setting.
- Documented patient histories and recorded details of appointments and treatments.
- Played a key role in maintaining accurate and up-to-date patient records, contributing to efficient hospital operations.

Dissolution Plant - Boulder, CO

Process Engineer

March-May 2023

- Designed distillation columns using Aspen Hysys for beverage production.
- Integrated recycle streams to optimize efficiency and achieve desired compositional standards.

Tequila Distillation Plant - Boulder, CO

Process Engineer

- Designed equipment along with an Aspen Hysys simulation that recycled some streams and achieved an ideal composition of organic compounds such as esters and aldehydes.
- Conducted reactor design, pump design, and heat exchanger design to ensure optimal performance.
- Performed cost analysis to evaluate the economic feasibility of the plant.

Tirzepatide Manufacturing Design

Process Engineer

- Conducted a comprehensive design project for the manufacturing of Tirzepatide.
- Created detailed process descriptions and flow diagrams.
- Developed material balances and conducted an Aspen Plus simulation to optimize the manufacturing process.
- Designed key equipment including reactors, distillation columns, heat exchangers, pumps, filters, valves, and miscellaneous tanks.
- Integrated utilities and heat integration strategies to improve energy efficiency.
- Performed economic analysis including capital, variable, and fixed costs, as well as profitability and sensitivity analysis.

Bomb Lab - Boulder, CO

Assembly Language Analyst

November 2023

- Utilized assembly language and disassembly techniques to analyze complex code.
- Employed C language skills to understand and unravel assembly-level programs.

Skills

- Programming: VBA, Python, C, MySQL
- Tools and Software: Matlab, Excel, Aspen Hysys, Aspen Plus, Git, VSCode
- Data Analysis and Machine Learning: Minitab
- Languages: Fluent in English, German, Spanish, and Dutch