

Vincent Leung

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Objective

Performance-oriented individual with a Bachelor of Science in Chemical Engineering. Self-motivated with excellent oral/written communication skills, intrapersonal skills, and teamwork abilities. Understanding of continuous process improvement and problem-solving methodologies. Seeking career opportunities related to chemical, systems, process, and manufacturing engineering but also interested in other engineering positions.

Education

University of California, Davis

Davis, CA

Bachelor of Science, Chemical Engineering

June 2020

Experience

Monterey Mechanical Co.

Oakland, CA

Project Engineer Intern

June 2019-Sept 2019

- Analyzed variety of drawings (structural, civil, electrical, mechanical, and P&IDs) to determine piping and fittings needed to connect gas to day tank
- Revised SOP according to OSHA guidelines to ensure safe excavation at the SFPUC Oceanside project
- Completed set of sectional drawings for implementation of conduits and rebar in duct banks
- Resolved issue with gas purge by submitting isometric detailing connection between gas tank and burner
- Conducted over 30 measurements to acquire embed lengths and angles needed for concrete pour

LibreTexts

Davis, CA

Editor

Nov 2018-Nov 2019

- Structured content on LibreTexts, a nonprofit online open-source educational project
- Published over 30 pages of material to provide students access to online resources/textbooks

Academic Projects

Senior Design

Spring 2020

- Developed two design processes using Aspen Plus software to simulate dimethyl carbonate production while reducing utility costs by 91% and eliminating 3500 tons of carbon emissions annually
- Produced 66-page report that included retrofit design, economic feasibility, equipment sizing and calculations, and HAZOP analysis of dimethyl carbonate plant
- Co-authored correspondence to address deviations in linear regression model in 2020 published article
- Recipient of the 2020 Sandia Engineering Design Award out of 162 design teams

Chemical Engineering Reactor Lab

Winter 2020

- Performed saponification of ethyl acetate using batch and CSTR reactors to discover direct relationship between temperature and conversion

Chemical Engineering Thermodynamics Lab

Spring 2019

- Plotted DAQami pressure data in MATLAB to determine heat engine cycle of oscillating piston
- Operated distillation column at the UC Davis Chemical Engineering Lab and composed a technical report detailing a column efficiency of 43% when distilling 82% ethanol by volume

Chem-E-Car

Fall 2017-Spring 2019

- Implemented stopping mechanism of the car using a spectrophotometer to observe color change
- Analyzed over 100 trials of data to determine primary materials for phosphoric acid battery

Skills

- **Programming:** MATLAB, Python
- **Analytics:** Aspen Plus (Process Simulation Software), SQL, Excel