

William Zhu

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OBJECTIVE

To secure a full time entry level Chemical Engineering Position where strong analytical, modeling, and problem solving skills can be applied to support process designs, optimizations, and decision making.

EDUCATION

University of South Florida

BS in Chemical Engineering (GPA: 3.33)

Tampa, FL

Expected May 2026

SKILLS

Programs/Languages: MATLAB, Aspen, Excel, Word, PowerPoint, Microsoft Office, HTML, CSS, ANSYS, OPENFOAM

CERTIFICATES

FE Exam (Passed) – Will get EIT after graduation

AICHE Certificates: Chemical Reactivity Hazards, Fire Hazards, Toxicological Hazards, Atmospheric Dispersion, Source Models, Reactor Runaway and Overpressure Protection, Hazard Identification and Risk Analysis, Quantitative Risk Analysis

PROJECTS

ECH 4605: Analysis and Suggestions for Previous Capstone Project – MATLAB, Excel, PowerPoint **2025**

- Using Data analyzing skills to analyze an old oxhydrogenated beverage report and compiling said information, in a organized report to help break down the information.
- Using data provided, analyzed and reconstructed solutions using the same data points, to verify information.
- As a team using MATLAB, Excel, and PowerPoint, compiled that information, and made an undergraduate level question involving the equipment within the report.

ECH 4931: 20MW CSP for Carson City Nevada – SolarPilot, IPSEGO, PowerPoint, Word, SAM **2025**

- Using new tools introduced in the class with a team of 5 designed a 20MW CSP using all available resources.
- Used SAM to get preliminary profit results to see if it is a profitable project including all tax benefits, manufacturing, maintenance, tariffs, and land.
- Using SolarPilot to design a CSP field of the size allocated for our choice of land in Carson City Nevada
- Using IPSEGO to finally design all the reactors and thermodynamics within the plant to fully simulate the plant fully in operation.

Portfolio Website – HTML, CSS

2024

- Constructed a portfolio website using HTML and CSS to serve as a central hub for completed projects, contact information, and a personal overview.

EXPERIENCE

Chinese Acupuncture and Herbal Medicine – Front Desk Receptionist

September 2023 – Present

- Utilized Excel to compile and organize essential data for business operations, increasing efficiency through effective data management.
- Managed customer relationships and scheduling through internal software (United Practice).
- Maintained and updated customer records, ensuring accurate and up-to-date client information.

Advanced Undergraduate Research Experience

August 2025 – December 2025

- Worked to find solutions for radiative cover for weed control and panel cooling to reduce overall costs and environmental impacts.
- Evaluated radiative ground cover concepts for reducing PV panel operating temperatures and improving energy efficiency, using software, like ANSYS, OPENFOAM and MATLAB.
- Assisted in interpreting thermal radiation (short and long waves), ambient conditions, and system level performance considerations for solar installations.
- Designed a new 3D model to expand our understanding, and overall better modeling of long and short waves for our system.