William Zhu

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OBJECTIVE

To secure an internship that provides hands-on experience, offering opportunities to apply and expand my knowledge in ways not available in the classroom or online, furthering my education and professional growth.

EDUCATION

University of South Florida **Tampa, FL**
BS in Chemical Engineering (GPA: 3.33) 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.