

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 achievable in the classroom or online, therefore, further enhancing my education and professional growth.

EDUCATION

University of South Florida

BS in Chemical Engineering (GPA: 3.44)

Tampa, FL

Expected May 2026

SKILLS

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

Skills: Data Visualization, Data Analysis, Data Management, Customer Service, Mandarin Translation

PROJECTS

ECH 5931: Solar Energy System Design Project – *Word, Excel, Data Management*

2024

- Using Knowledge gained in the class to design a functional solar energy system design of a house with included heated flooring.
- Compiled information like sun angle calculations, energy generated and yearly energy load to design and later find a residential solar panel.
- Analyze all financial data to find the payback period of the purchased solar panels, while accounting for the energy tariff and slow degradation in energy returns on solar panels.

ECH 4323: Foundations of Engineering Robot – *MATLAB, Simulink, PowerPoint*

2024

- Collaborated in a 3-person team to design, test and implement a multiloop control strategy on a Naphtha Cracker.
- Using my leadership skills, I spread work out to a manageable degree to everyone, with account to the 2 hurricanes that halted progress on the project and classes.
- Utilized Simulink with a provided model of a Naphtha Cracker to test many control strategies to find the best in terms of safety and profits.

ECH 4846: Numerical Methods Process Project – *Aspen, Excel, PowerPoint, OBS Studio*

2024

- Utilized Aspen to conduct an in-depth industry-level analysis of Zinc Chloride production, compiling data and expenses in Excel to support comprehensive cost analysis.
- Compiled critical information into a PowerPoint presentation, leveraging Microsoft Teams and OBS Studio to deliver a detailed explanation of cost analysis findings.

Simple Septic Tank Usable for 3 Months

2023

- Using some knowledge gained from engineering classes, along with real world experience, designed a Simple septic for 2 people that is usable for 3 months at minimum.

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.