

Christopher Taylor

chris.taylor.mech@email.com · 713-555-8901 · Houston, TX 77002

EDUCATION

University of Houston, Houston, TX

Bachelor of Science in Mechanical Engineering, GPA: 3.5

December 2022

WORK EXPERIENCE

Mechanical Engineer I

January 2023 – Present

Apex Energy Solutions, Houston, TX

- Design mechanical systems for oil and gas facilities using AutoCAD, SolidWorks, and ANSYS
- Perform stress analysis, thermal calculations, and fluid dynamics to meet API and ASME standards
- Collaborate with multidisciplinary teams on \$15M+ infrastructure projects
- Prepare engineering drawings, specifications, and bills of materials for fabrication teams
- Conduct site inspections ensuring installations comply with design and safety standards
- Develop preventive maintenance procedures for pumps, compressors, and turbines

Engineering Co-op

May 2021 – December 2021

NASA Johnson Space Center, Houston, TX

- Supported propulsion systems testing for Artemis lunar mission program
- Performed data analysis using MATLAB and Python, creating technical reports
- Assisted with valve assembly modifications achieving 12% improvement in flow control

LEADERSHIP EXPERIENCE

Project Lead

August 2020 – December 2022

Formula SAE Racing Team - University of Houston

- Led suspension sub-team of 8 students in race car design and fabrication
- Managed timeline and \$25,000 budget to meet competition deadlines
- Designed suspension achieving 15% improvement in cornering performance

Vice President

May 2021 – May 2022

ASME Student Chapter

- Organized workshops and plant tours for 120-member organization
- Coordinated networking events with Shell, ExxonMobil, and Schlumberger

SKILLS

- CAD: AutoCAD, SolidWorks, CATIA V5, Inventor
- Analysis: ANSYS (Mechanical, Fluent, CFX), MATLAB, Python, LabVIEW
- Standards: ASME codes, API specifications, OSHA safety regulations
- Manufacturing: GD&T, machining, welding, 3D printing
- Engineer in Training (EIT) Certified - FE Mechanical Exam Passed