

Christopher Taylor

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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