

Austin Hinrichs

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EDUCATION

Texas A&M University, Mays Business School

Master of Business Administration

College Station, TX

August 2025

Texas A&M University, College of Engineering

Bachelor of Science in Mechanical Engineering

Honors: President's Endowed Scholar, Distinguished Student

College Station, TX

May 2024

EXPERIENCE

Forum Energy Technologies

Capstone Design

College Station, TX

September 2023 – May 2024

- Designed automated endurance test rig for heat exchanger failure analysis
- Managed component acquisition and cost accounting procedures for \$54,000+ material budget
- Conducted detailed FMEA and FTA failure mode analysis on each subsystem component
- Created piping and instrumentation diagrams (P&IDs) to display physical process flow
- Fabricated functional prototype capable of accurate pressure, flow, and temperature testing

Solvay

Production Engineering

Greenville, TX

May 2023 – August 2023

- Managed carbon composite material production line across 3 cross-functional departments
- Designed and implemented new fiber material enclosure resulting in \$30,000 annual waste loss reduction
- Optimized and refined 100+ SOP steps, reducing cycle time in critical production bottleneck
- Developed VBA program fully automating information flow between subsequent assembly departments
- Interfaced with external vendors to implement \$40,000 custom steel rollers to maximize production output

TTI

Engineering Research

Bryan, TX

May 2022 – August 2022

- Conducted analytical tests in lab environment on sustainable infrastructure material mix designs
- Assisted in design optimization to promote proper stress and strain, durability, and permeability
- Utilized CAD software to design and implement custom replacements on equipment components
- Fabricated specimens for testing and data analysis

LEADERSHIP & INVOLVEMENT

Kappa Sigma Fraternity

President

College Station, TX

November 2022 – December 2023

- Managed 18 directors of 220+ member organization with \$900,000+ annual budget
- Oversaw all aspects of Chapter, including risk management, external relations, and finance
- Received award for Outstanding (Top 10) Chapter President out of 300+ chapters
- Coordinated all chapter and executive committee meetings
- Negotiated and implemented contracts with external entities totaling \$300,000+

Interfraternity Council (IFC)

Vice President of Scholarship, Director of Health/Safety

College Station, TX

February 2021 – April 2023

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: SolidWorks, MATLAB, Python, Java, VBA, Excel, Project Management, Sales

Activities: Military Heroes Campaign, Kappa Sigma Fraternity, Engineering Honors Executive Committee

Interests: Sports and Analytics, Artificial Intelligence, Consumer Electronics, Volunteering Projects