

# KRISTEN FENWICK

Engineering Student, Texas A&M University

NASA LEAP Program Analyst Intern | L'SPACE Mentor

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## About Me

I'm an engineering student at Texas A&M and a NASA LEAP Program Analyst Intern mentoring student mission concept teams through NASA's systems engineering process. My background spans mission scheduling, cost estimation, and integration planning, with hands-on experience in Python data analysis, mechanical design, and lab experimentation.

## Selected Projects

### A.N.D.E.R. Venus Aerobot Mission Concept - NASA L'SPACE

*Deputy Project Manager of Resources*

Developed the mission schedule and integration timeline for a proposed Discovery-class Venus mission. Aligned milestones with NASA lifecycle phases and coordinated subsystem reviews.

### Fire Escape Aluminum Drum Design - ENGR 216

*Engineering Analysis*

Modeled solid vs. hollow drum behavior using moment of inertia equations, uncertainty propagation, and safety velocity thresholds.

### Rotational Motion Lab - ENGR 216

*Experimental Analysis (based on PHYS 226 Lab Manual)*

Measured angular momentum transfer between rotating bodies using a Visualization Studio. Analyzed uncertainty through additive and multiplicative propagation to verify conservation principles.

### NASA L'SPACE Mentorship Role

*Program Analyst Mentor*

Supported over 500 students across multiple mission concept teams in the NASA L'SPACE Academy. Guided teams through cost, schedule, and risk sections for LCRs and ensured deliverables aligned with NASA's Cost Estimating and Schedule Management Handbooks.

## Tools and Skills

- Python (data visualization, uncertainty analysis, automation, and project scripting)
- CAD (SolidWorks, Tinkercad)
- MATLAB, Excel (parametric modeling)
- NASA Systems Engineering & Lifecycle Phases
- Technical Documentation (IEEE)