

# University of New Orleans' Rocket Club - NOLAR

Advisor: Kim Jovanovich

Team Lead: Ahmad Abdellatif





# Who we are

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- We are a club that formed in May 2024
- As Aerospace Engineering is not offered at the University of New Orleans, this organization allows students in Mechanical, Electrical, and Civil Engineering to collaborate and work together on developing Aerospace applications
- We intended on building rockets in a challenging way, which is where the NASA-USLI competition comes in



# What is NASA Student Launch Initiative?

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- NASA's **Student Launch Initiative (SLI)** is an annual challenge engaging students in **high-powered rocketry**.
- Focuses on fostering skills in **STEM (Science, Technology, Engineering, and Mathematics)**.
- Each year, over 100 schools apply nationwide.

## **Program Objectives:**

- **Design, build, and launch** rockets capable of meeting specific mission goals.
- Emphasizes **engineering design processes**, safety, and innovative problem-solving.
- Promotes collaboration between students, educators, and NASA engineers.

# July – August 2024

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Following the President and the two other founders, over 15 members designed and launched their own rockets to gain insight on rocketry terms and hands-on experience.



# August 14th, 2024 – NASA-USLI Guidelines

- NASA's handbook released for competition released, where over 100 top schools in the nation applied, the University of New Orleans began working towards their goal.
- September 11th: A 66-page proposal was submitted by the team as a notice of intent
- October 3rd: the University of New Orleans was awarded acceptance in the competition
- October 28th: A 186-page Preliminary Design Review was submitted by the team
- January 8th: A 253-page Critical Design Review was submitted by the team
- March 17th: A 270-page Flight Readiness Review was submitted by the team
- \*each submission was followed by a successful presentation with the NASA-Review Team\*

# Successful Launches: 3/3



December 21st, 2024  
Tampa, FL  
Successful Subscale Flight



March 8th, 2025  
Huntsville, AL  
Successful Full-Scale Flight



May 4th, 2025  
Huntsville, AL  
Successful Competition Flight

<https://app.box.com/s/r98qmvyps1teii2q8mflnr2ez6bziffj> - All Launches



# STEM Engagement

The team has also done STEM Engagement throughout the year to enhance aerospace engineering in South Louisiana



# Budget Information

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This year, the team spent approximately \$12,000 on the competition. Additionally, majority of those funds were from the members.

Next year, NOLAR is aiming to continue spreading the life of rocketry, hosting STEM Engagement Events, and competing in NASA-USLI.

In order to achieve a long-term, successful club, the team must raise money. Below is the link to our website, along with a benefits chart.

If you have any questions, please reach out to the club President, Ahmad Abdellatif at [asabdell@uno.edu](mailto:asabdell@uno.edu)

Thank you for your consideration!

[NOLA Rocketry · GiveCampus](#)

SAFETY   \$774
RECOVERY   \$1483
PAYLOAD   \$1077
STRUCTURES   \$6822
TRAVEL   \$2000
TOTAL   \$12,156

