

# NASA HUNCH Design and Prototype

## Lunar Flag Pole Finalists 2020

Congratulations to the following teams who are invited for the Final Design Review in Houston. If you see any mistakes in names or other information, please send me any corrections. and I will update each of the lists accordingly. Teams that are listed here should make updates their designs and presentations. Improvements to the prototypes and presentation boards should reflect comments made by the mentors and evaluators. These pictures are not placed in any type of order and do not reflect any kind of scale or ranking. I intend for all of the lists to be posted to the HUNCH design web page and will remain there so students can reference it when applying to schools and universities. I am very proud of the work everyone has done and wish all of you the best of luck.

### Pointers for Lunar Flag Pole:

I do not expect this prototype to be made of flight materials but it should be as fully functional as possible. There should not be any cardboard. 3D prints are good but you should move beyond any wood components. Choose a person in your group and make the size of your prototype fit that person's needs. Make sure you have a good solid method for attaching to the Lunar Lander leg or ladder. Be ready to show the steps of how to remove the flag pole from the lunar lander and set it up with gloves in a short time. How well does your flag pole stand up to wind in different types of dry soil?



Students: Tony Samour, Teagan Kelly, Carter Giles  
Project: Lunar Flag Pole  
Teacher: Joel Bertelson  
Mentor: Alli Westover, David Schlichting  
School: Chatfield—Colorado



Students: Everett Cunningham, William Greeley, Gerrett Everet  
Project: Lunar Flag Pole  
Teacher: Robin Merritt  
Mentor: Glenn Johnson  
School: Clear Creek-- Texas



Students: Dominick Siena, Meredith Westrich, Samuil Doser  
Project: Lunar Flag Pole  
Teacher: Donna Himmelburg, Vince Stornello  
Mentor: Nancy Hall and Gene Gordon  
School: Fairport—New York



Students: Brandon Mercado, Metin Sari, Ishraq Ahmed, Bryan Ambrosio, Juan Ramirez, Jahir Keeling, Siddharth Rana, Mohammad Abdulazeez, Keyur Rana, Lascelles Morrison, Shah Rahman, Dylan Toy, Ty Asia Morrison, Najely Domingue, Dereck Arroyo, James Alain  
Project: Lunar Flag Pole  
Teacher: Marianne Alvarez  
Mentor: Flo Gold  
School: PCTI—New Jersey



Students: Brian Baker, Kyle Scholtens, Jack Miller  
Project: Lunar Flag Pole  
Teacher: Gary Duquette  
Mentor: Flo Gold  
School: Jackson Hole--Wyoming



Students: Jaden Balanon, Samuel Delgado, Zachary Hastings  
Project: Lunar Flag Pole  
Teacher: Carmen Garvis  
Mentor: Gotthard Jansen  
School: Sanger—California



Students: Robert Paddack, Austin Rouser, Tanner Dollar  
Project: Lunar Flag Pole  
Teacher: Debbie Short  
Mentor: Alli Westover, Zach Tullier  
School: Meridian Technology Center--Oklahoma