

# NASA HUNCH Design and Prototype

## Lunar Sample Tongs 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 Sample Tongs:

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. This should be a one handed, gloved operation. Be able to pick up a variety of sized rocks that are of various shapes without picking up lots of dust. What can you do to prevent a crew member from dropping the tongs but still easy to let go of it when they need their hand free? What is your plan for keeping the weight down for the flight unit?



Students: Kaylee McDowell, Travis Sturgan  
Project: Lunar Sample Tongs  
Teacher: Luis Reyes  
Mentor: Lisa Passarelli  
School: Space Coast --Florida



Students: Trevor Bean, Blake Clark  
Project: Lunar Tongs  
Teacher: David Laughlin  
Mentor: Glenn Johnson  
School: Bridgeland--Texas



Students: Luciana Carijura, Adrian Canterbury, Patrick McGoldrick  
Project: Lunar Tongs  
Teacher: David Laughlin  
Mentor: Glenn Johnson  
School: Bridgeland--Texas



Students: Juan Santos  
Project: Lunar Tongs  
Teacher: Eric Canistorp  
Mentor: Glenn Johnson  
School: Conroe--Texas



Students: Brandon Redman, Angela Astorga, Dorianna White  
Project: Lunar Tongs  
Teacher: Scott Krassin  
Mentor: Flo Gold  
School: Wyoming Indian High--Wyoming