

Final Design Showcase with Schedule (8 pages)

April 8, 2025

Congratulations for being a NASA HUNCH Design and Prototype Finalist for 2025

By being a finalist, you are a winner. This means that we are providing you with a stage to show your idea to real NASA engineers and astronauts. It does not mean that your project will fly to space but it is being viewed by people who may like your ideas and may contact you for more of your ideas and participation. This also gives you a reference on your resume for a national competition. Your status will remain on the HUNCH design and prototype page for as long as the website exists—my thought is forever.

Just like in real engineering at NASA we may take some of the best ideas from multiple projects and put them together into a final prototype that will be placed in front of other engineers with the intent of satisfying all of NASA's requirements and needs and may be chosen to fly or used as a training item. It is our intention that all of the students and people that contribute to designs leading up to and including the flight design will be given credit as contributors will be included in the write up that is produced and placed on the HUNCH website. This means that you will have a continual reference to a piece of flight or training hardware that is being used by NASA. When possible HUNCH will include students on upgrades of their final designs so they may participate in the development of the Flight design. This will be done through the HUNCH Flight Configuration program with Mike Bennett.

In the event that engineers and/or HUNCH are interested in developing your project further in the coming year(s), we would like to have information that will start us on a good path and also your contact information so we can share our progress with you.

Project Information Transfer

Students need to bring a thumb drive that they can leave with us. We need to have a string label on the thumb drive with the following information.

Project, School, teacher, 2025

On the drive you should have one folder that has the following information:

- PDF File containing--Contact information of each team member—email and phone numbers that won't change anytime soon.
- PDF Brochure—student names, teacher, school, photos of latest prototype,
- PDF Project Presentation—the one you have already made
- File containing--Engineering CAD drawings—STL files, labeled clearly, (Inventor has a 'pack and go' option that makes it easy to include relevant files)
- File containing--Pictures and videos
- PDF File containing--Testing data

HUNCH will collect the thumb drives at the Final Design Review. We will place all the information on a terabyte hard drive later but we would still like to retain the thumb drives.

Swag Packet

Each school will receive a packet. Each student will receive a NASA HUNCH Design and Prototype Finalist patch that looks great on any Varsity jacket, backpack or shirt so you can show your team's accomplishment as you return to school or when you are at college. You will also receive a certificate for your project. Each team will receive 3 tickets for Space Center Houston that can be used anytime within the coming year. There will also be one ticket for the teacher and one for a chaperone for each school. If you are arriving Monday and want to use your Space Center Houston tickets. Let me or your Mentor know and we will work with you to receive them. Otherwise you can pick it up at the Design and Prototype Showcase at Rocket Park.

Schedule for April 8 Design and Prototype Final Design Review

Tri-Fold Presentation Boards or Posters with stands

Houston weather in April is typically warm and humid and it sometimes rains. Choose glue for your presentation boards that won't be affected by the humidity or print posters and have a stand for holding the poster.

8:45 am Arrival at Space Center Houston use QR code or web page for free parking.
Students will enter the front of Space Center Houston **no earlier than 9:00** and load onto trams that will take them and their projects to Rocket Park where they will set up on 6' x 2' tables around the Saturn V rocket. 2 teams per table
In the event that a team's project is difficult to fit onto the tram or there is bad weather, HUNCH will have two vans in the Space Center Houston parking lot ready to take projects over to Rocket Park—students will still have to ride the tram (security reasons).



<https://validation.metropolis.io/kbmuvgnnie>

9:30 am Glenn--Welcome to the Final Design Showcase
Event beginning **(table arrangements and map below)**
Some NASA people may start arriving to see student projects
Keep one person at the table at all times. Go see other projects.
Most people won't know what your project is. Tell them what you are doing and why.
Don't be afraid to reach out to people coming by. Sell your idea.

10:00 Space Center Houston opens to public.

10:30 Glenn gives a short presentation about HUNCH and to people attending the Design Review. This includes engineers from other companies, some faculty from universities have been invited

11 to 12 lunch The Saturn V Rocket is owned by the Smithsonian and doesn't want food by the rocket.

Unfortunately, the cafeteria is difficult to get back to and return to the Rocket Park—tram difficulties with other patrons.

Space Center Houston is providing water while at Rocket Park

Bring some snacks (eat outside) and plan to have a late lunch may be the better suggestion. We are planning to have a tent outside.

There are some vending machines by the bathrooms with sodas and snacks.

Always keep a team member at the table to talk about your project.

1:30-2 pm

Thank you for coming all this way. Your ideas and enthusiasm is what moves NASA forward with each generation. I am certain the future of space travel and exploration is in good hands thanks to students like you.

Start packing up—no hurry. Finish talking to any and all who stop by. Take pictures with the potential future team mates or competitors you have met today. You may be working with them in the future beyond college.

Vans will be available to help bring projects and tri-folds back to Space Center Houston parking lot.

Table Arrangements (see map)

Project	Table	Team	Team
Additive Manufacturing			
	1	MPLS - Chatfield, CO	Clear Creek, TX-Kenneth
	2	Erie, CO--Josh, Keenan, Ethan, Liam	Clear Creek, TX--Ruby, Truman
	3	PEGASS Chatfield, CO— Jacob, Max, William, Evan	Jackson Hole, Wy—Blake, Boomer, Owen
Solar Panel Deployer			
	4	SPARC - Chatfield HS	Solar Panel Deployer—Jackson, Mitchel, Aidan--Bridgeland H.S. Texas
	5	Solar Panel Deployer—Sara, Santiago--Clear Creek, Texas	Solar Panel Deployer—Michael, Selene, Ying-- Sanger High School, California
	6	Solar Panel Deployer – Anum Ghori, Caitlin Welsh, Jack Cameron, Mariel Nieves – Independence HS, Virginia	
Lunar Camper			
	6		Lunar Camper Prototype - Lakewood HS
	7	Lunar Camper - Chatfield HS	Lunar Lander Legs—Hayden, Cooper, Jeremiah, Bryce—Erie Academy of engineering
	8	Lunar Camper --BCC Billings	Lunar Camper—Allison, Alina--The Woodlands, Texas
	9	Lunar Camper—Madden, Brendan, Noah--Cole Valley Christian School, Idaho	Lunar Camper--Elodi Claudet, Palm Bay Magnet, Florida
Cosmic Dust Collector			
	10	Cosmic Dust Collector (pez-like)— Mahtomedi, MN	Cosmic Dust Collector COSMITT – East Troy HS, WI
	11	Cosmic Dust Collector (roller) – Minnetonka, MN	Cosmic Dust Collector--Olympia WA

	12	Cosmic Dust Collector— Naren, Sara, Aadyan--Clear Creek, Texas	Cosmic Dust Collector-- Nataly Diaz-Sanchez, Chevy Irwin--Waite H.S. Ohio
Ice From Regolith			
	13	ICES - Chatfield HS	Ice from regolith--BCC Billings
	14	Ice from Regolith--PCTI NJ	Ice from regolith--Glenelg Maryland
	15	Lunar Ice—Kavish, Thimath, Jayasuriya, Sai Rakshit--Allen High School, Texas	
Cube Sat Heat Transfer			
	15		Cube Sat Heat Transfer—Maia, Nora, Henry—Manning Middle School
	16	Cube Sat Heat --Glenelg, Maryland	Cube Sat heat transfer --Bergen New Jersey
	17	Cube Sat Heat Transfer— Jonathan, Sam--THEO Christian Solution, Texas	Cube Sat Heat—Eileen, Henry, Aly, Matthew, Addison, Ryan, Iona-- Tuscarora, Virginia
Lunar Ejecting Robot			
	18	Lunar Ejecting Robot - Green Mtn HS	Lunar Ejecting Robot(SCALLOP) – Josiah Lee, Colin Parkinson, Darke Philipsen – Grafton HA, Virginia
	19	Lunar Ejecting Robot— Diego, Adan—CROEM, Puerto Rico	Lunar Ejecting Robot, TERRA ROVER - Chatfield HS
	20	Ejecting Robot—Willam, Heejun, Henry, Alex-- Northview, Georgia	Lunar Ejecting Robot—Jacob, Preston, Joshua--Harlingen Collegiate, Texas
	21	Lunar Ejecting Robot— Nathan, Orlando--Legacy Christian, Texas	Ejecting Robot --Ahnaf, Jason Liam, Salman--Stem Academy New Jersey
	22	Lunar Ejecting Robot, AERIS - Lakewood HS	Lunar Ejecting Robot – Harley School, NY
	23	Ejecting Robot VPCI -- Toronto, Canada	3D Printed Gateway Model –Billy Brown, Chase Stewart, Devin Lopez, Dylan Mackney--Palm Bay Magnet, Florida

Lunar Landing Legs and Payload Deployment			
	24	Lunar Landing Legs WADDLE – East Troy HS, WI	Lunar Lander & Payload Delivery - South HS
	25	Lunar Landing Legs and Payload – Addison Brathwaite, Melina Alexiades, Joy Raichura, Tyler Boruff – Gainesville HS, Virginia	Lunar Landing Legs & Payload Delivery - Manning MS
	26	Lunar Landing Legs— Amanda, Fabiola, Christian, Revel—Academia San Agustiny Epiritu Santo de Saban Grande, Puerto Rico	Landing System and Payload Delivery - Lakewood HS
	27	Lunar Landing Legs—Alysha, Isabella, Pedro—CROEM, Puerto Rico	Lunar Landing Legs & Cargo Release System – SWCHS, MN
	28	Lunar Legs -- Jacob Hines, Nicole Dipasquale, Dakota Doyle--Palm Bay Magnet, Florida	Lunar Landing Legs --Gallatin, Bozeman
	29	Lunar landing legs--Tri County, Massachusetts	Lunar Landing Legs—Tucker, Mia--SMSD Center for Academic Achievement, Kansas
	30	Lunar Landing Legs— Michael and Jhaiden--Clear Creek, Texas	Lunar Landing Legs—Trevor, Taige, Isaac, Ian--Cole Valley Christian Schools, Idaho
	31	Lunar Landing Legs— Cypress Springs, Texas	Lunar Landing Legs and Payload— Isaiah, Abram, Jesus--Harlingen Collegiate, Texas
	32	Lunar Landing Legs and Payload— Romeo, Antonio, Thane-- R.L. Turner, Texas	