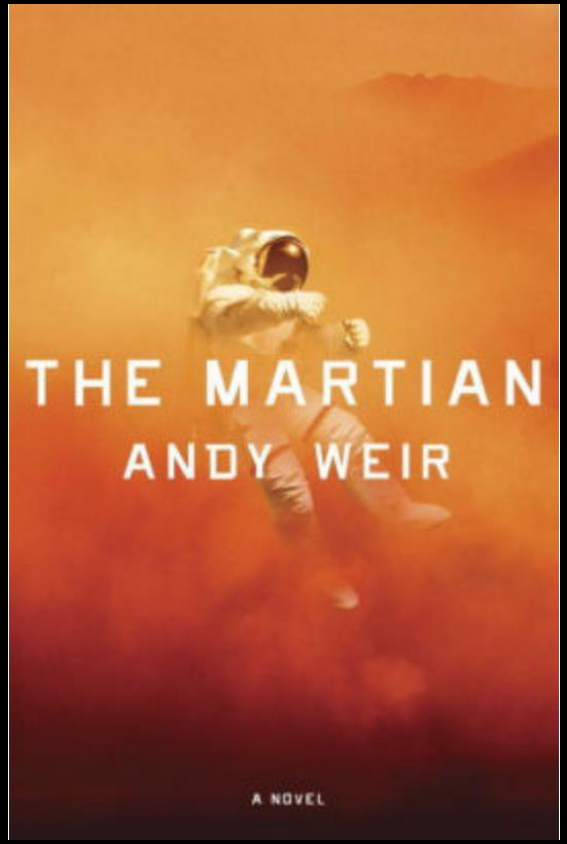
GLEE

The Great Lunar Expedition for Everyone

Chris Koehler

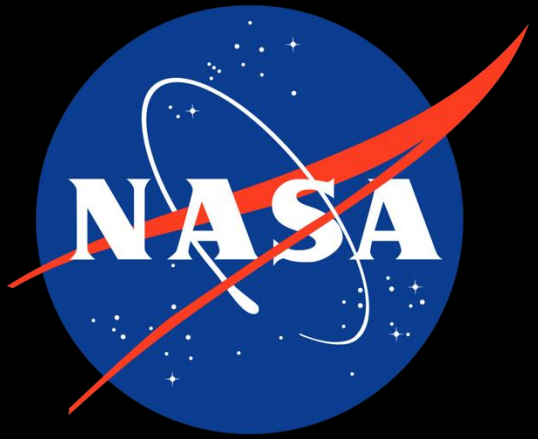
September 13, 2019

Second…


THE MARTIAN
ANDY WEIR
A NOVEL

NEW YORK TIMES BESTSELLER
ONE GIANT LEAP
THE IMPOSSIBLE MISSION THAT FLEW US TO THE MOON
CHARLES FISHMAN
Bestselling Author of The Big Thirst and The Wal-Mart Effect

March 3, 2018…


NASA

COLLEGE AND
NATIONAL SPACE GRANT
FELLOWSHIP PROGRAM
NASA

EXIT

March 1, 2019…

50,000 Students and Mentors…
NASA
EXIT
THE WESTIN
CRYSTAL CITY

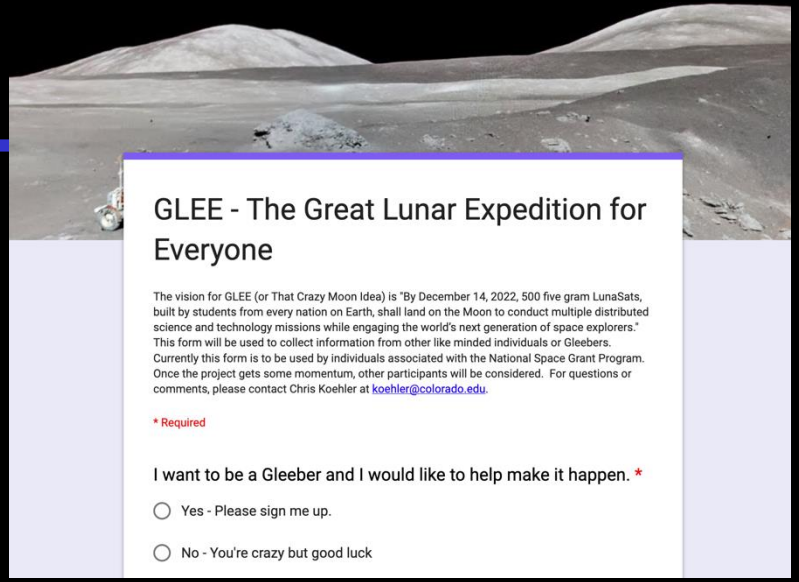
GLEE…

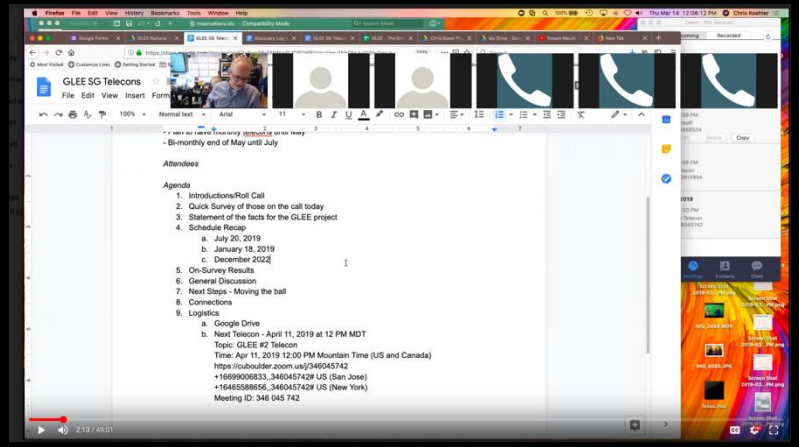
2023

By December 14, 2022, 500 five gram LunaSats, built by students from every nation on Earth, shall land on the Moon to conduct multiple distributed science and technology missions while engaging the world's next generation of space explorers.

March 2 – July 19, 2019…

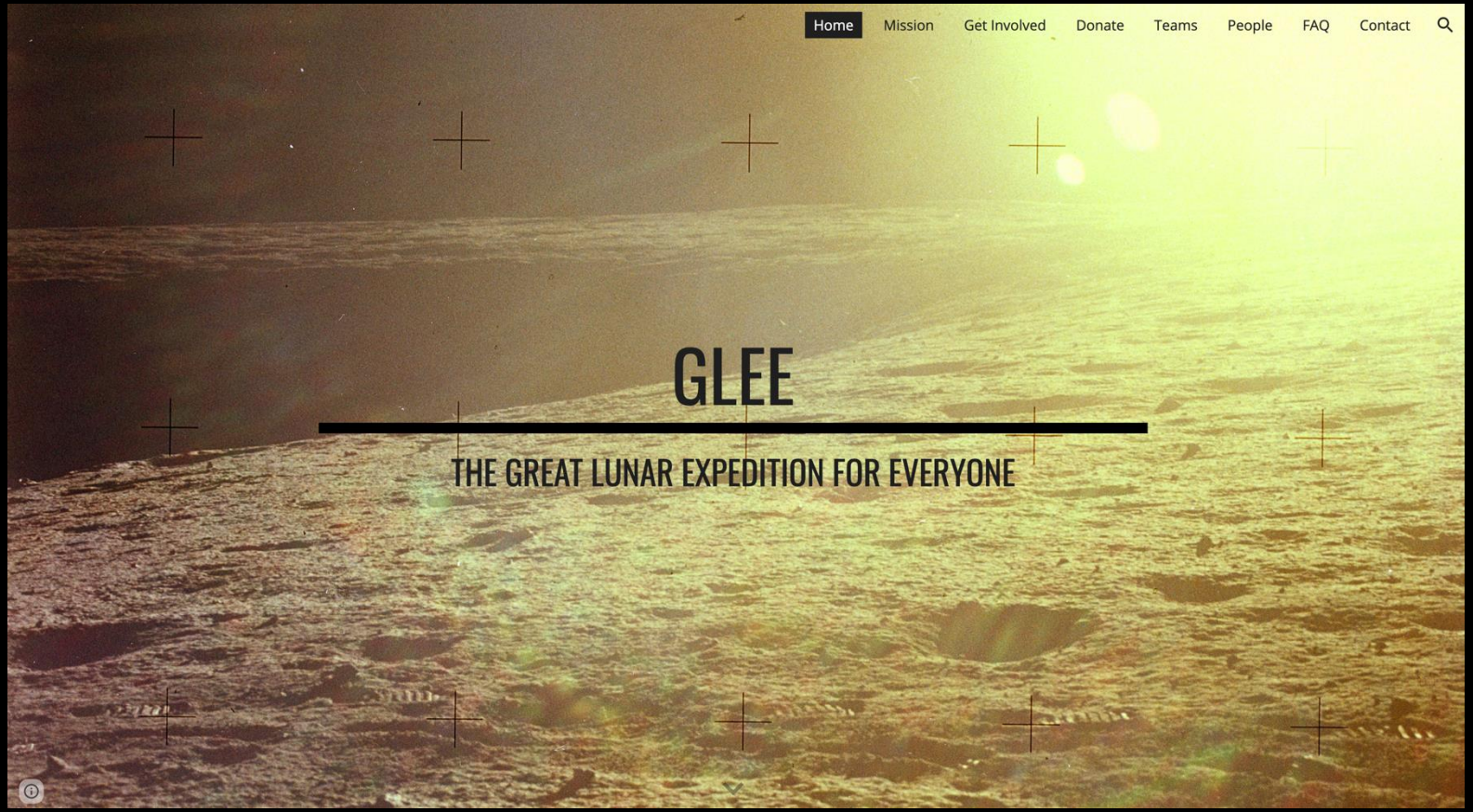
- 1 survey and 9 Telecons
- At one point, 22 SG were active
- Multiple cold calls to NASA, Industry, and Organizations
- Student team formed
  - Spacecraft
  - LunaSat
  - Legal and Other
- GLEEmer vs. GLEEber
- Major push for July 20, 2019





July 20, 2019…

GLEE2023.org



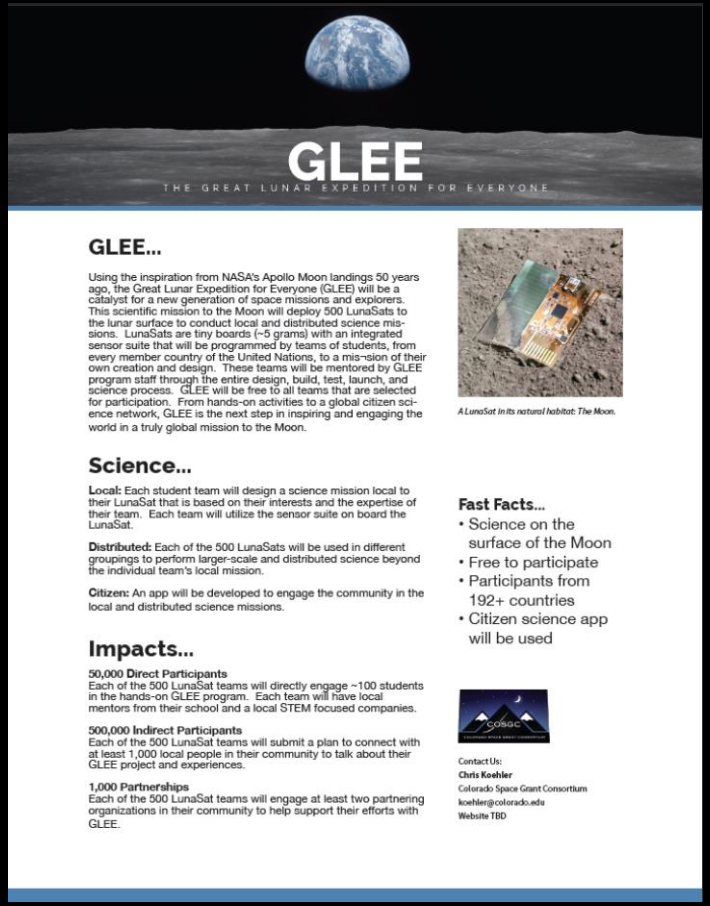
July 20, 2019…

- Commercials

July 20, 2019…

- Glee cards

July 20, 2019…



For Immediate Release
Media Contact:
Name
Number
Email

NASA's Space Grant Consortia Announce the Great Lunar Expedition for Everyone, a Student Driven Mission to the Moon
Mission expected to launch in 2024

BOULDER, CO (July 20, 2019) An ambitious new project was announced by NASA's Colorado and New York Space Grant Consortia today. The Great Lunar Expedition for Everyone (GLEE) is a college student driven mission to land 500 LunaSats on the surface of the Moon by 2024. Inspired by NASA's Apollo Moon landings 50 years ago, GLEE is a catalyst for a new generation of space missions and explorers. The project is the brainchild of Chris Koehler, COSGC Director and researcher at the University of Colorado Boulder, and Mason Peck, New York Space Grant Director and Professor at Cornell University.

At the National Meeting of NASA Space Grant Directors in 2018, Koehler declared his desire to move beyond retrospectives of lunar science conducted on the lunar surface decades ago and issued a challenge that we honor the accomplishments of the Apollo missions by developing our own mission to the Moon. NY Space Grant Director and former NASA Chief Technologist Mason Peck accepted that initial challenge, and the two spent the next several months discussing the possibilities. In March of 2019, Koehler and Peck invited members of the National Space Grant community to join the teams at CU Boulder and Cornell to help turn this grand idea into a real mission. Representatives from two dozen states are already involved in building the foundation and organization needed to get GLEE off the ground by the end of 2019 with the goal of recruiting student teams from all 52 Space Grant jurisdictions, as well as teams from all 193 member countries of the United Nations.

Lynn Fenstermaker, Director of the Nevada Space Grant Consortium and Research Professor at the Desert Research Institute signed onto GLEE early on. "NV Space Grant has been looking for the next great collaboration with other Space Grant jurisdictions since the success of the nationwide Eclipse project in 2017," Fenstermaker explained. "When Chris Koehler announced GLEE, I immediately knew that this endeavor would not only further NASA's mission 'Back to the Moon and on to Mars,' but also provide a great opportunity for students to participate in a space exploration project that will train them for space or related science careers."

July 20, 2019…

CPR News

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CU Team Working To Send 500 Tiny Spacecraft To Moon

By Natalia V. Navarro | July 27, 2019

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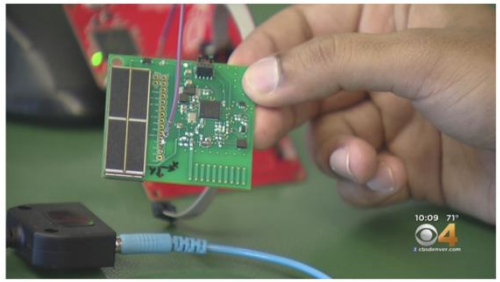
COLORADO STUDENTS HOPE TO SEND 500 SPACECRAFT TO THE MOON BY 2023

ZANE MATHEWS | July 25, 2019

ThinkStock

BOULDER, Colo. (CBS4)– There is a new moon mission in the works and students at the University of Colorado in Boulder are at the center of it all. Their plan is to send hundreds of tiny spacecraft to the moon; each one will only be the size of a leaf.



(credit: CBS)

CU Boulder Engineering @CUEngineering · Jul 24

The moon is for all! @COSpaceGrant is leading a mission to send 500 palm-sized spacecraft to the moon by 2023! #CUBoulder students will help build and program LunaSats as part of #GLEE2023

Become a GLEEmer →

Students to send hundreds of leaf-sized spacecraft to the moon

The Great Lunar Expedition for Everyone (GLEE) will reveal new information about the lunar surface and pave the way for human astronauts on the mo...

colorado.edu

DC | CU Boulder's Colorado Space Grant Consortium…

NEWS › CU NEWS

CU Boulder's Colorado Space Grant Consortium hopes to launch 500 tiny spacecraft to moon

The group wants at least one team of students to come from each country in world

Post July 20, 2019…

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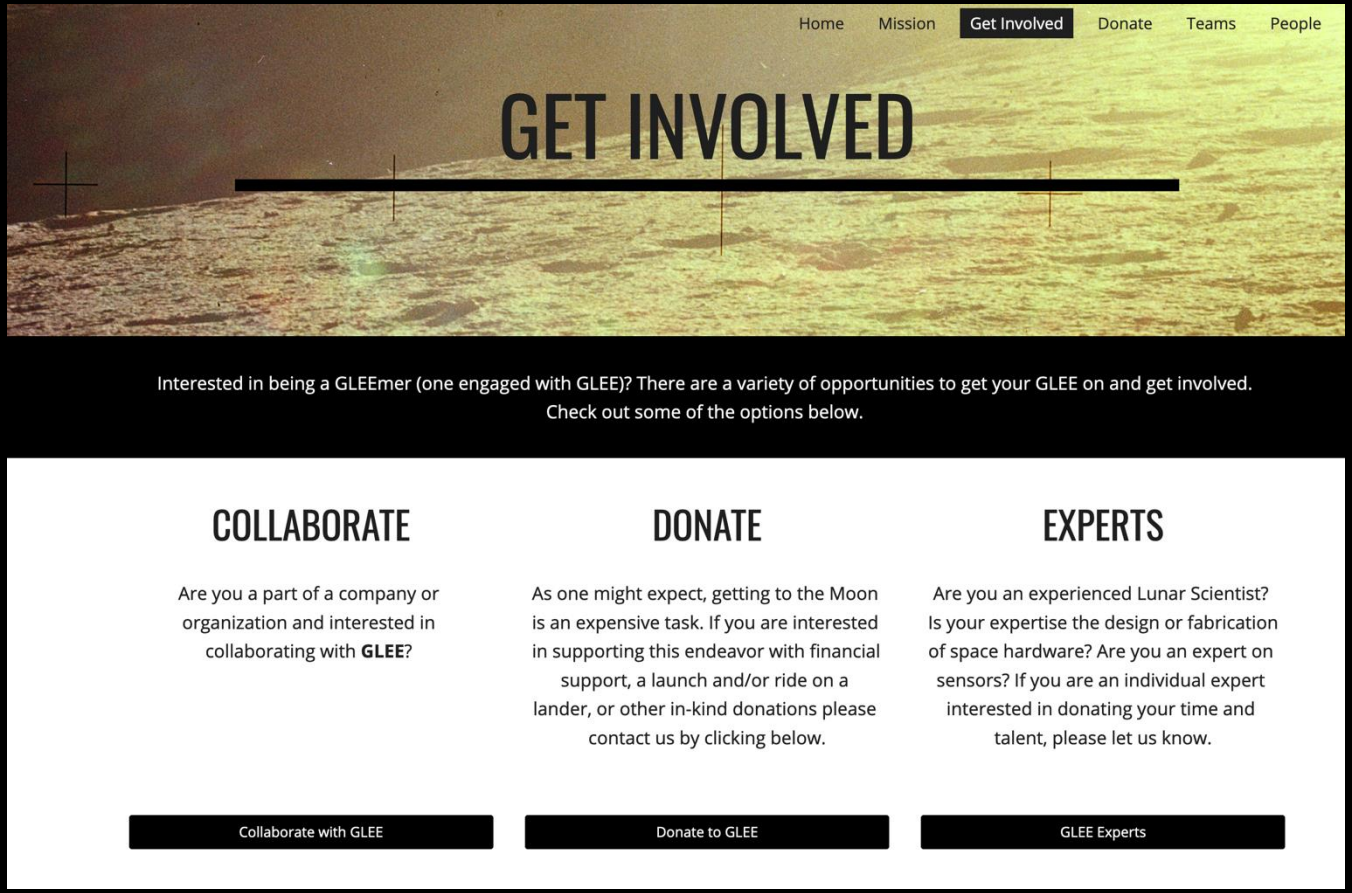
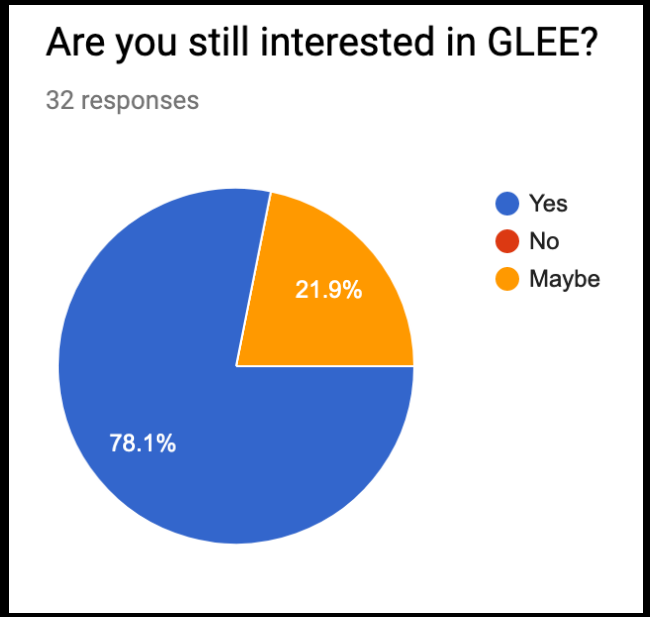
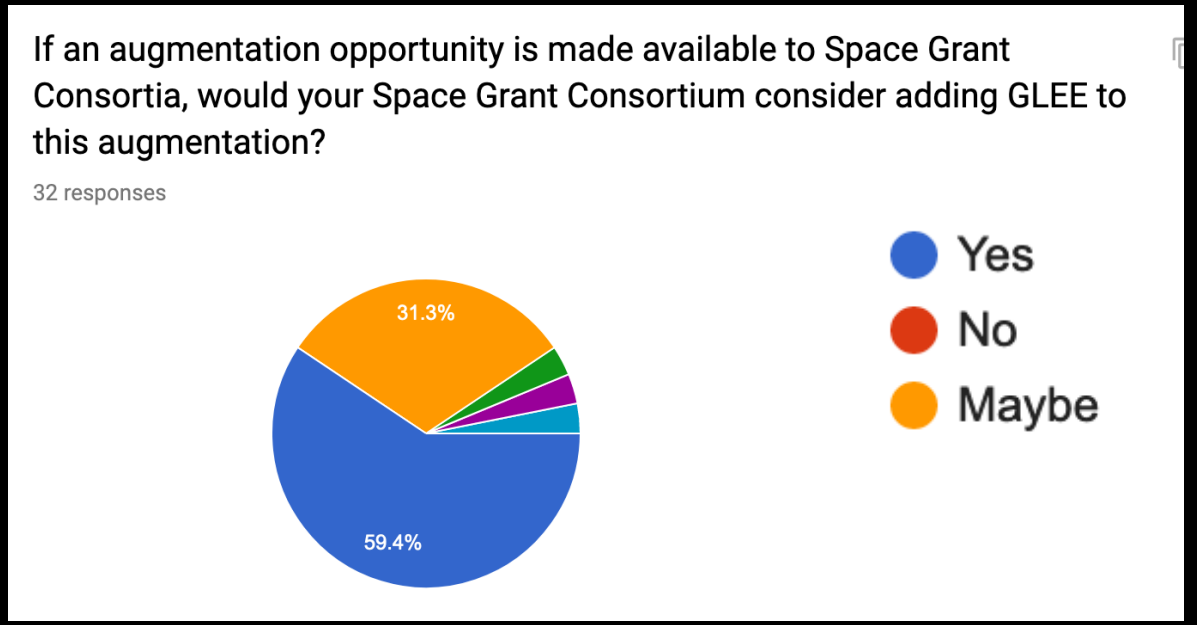
Post July 20, 2019…



Post July 20, 2019…

- 1 Survey and 1 telecon





Post July 20, 2019…

- Science Advisory Team (SAT)

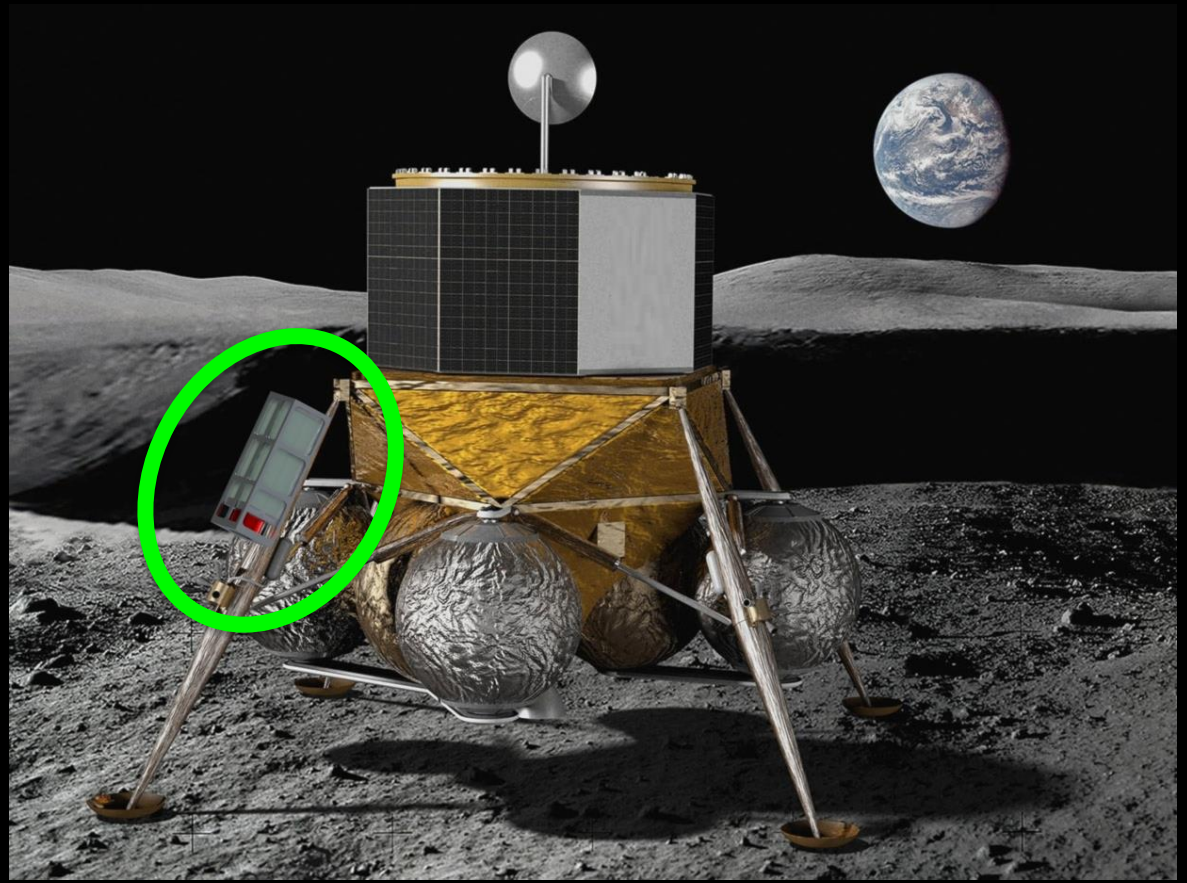
Post July 20, 2019…

- Student team = Charge after July 20 to August 20

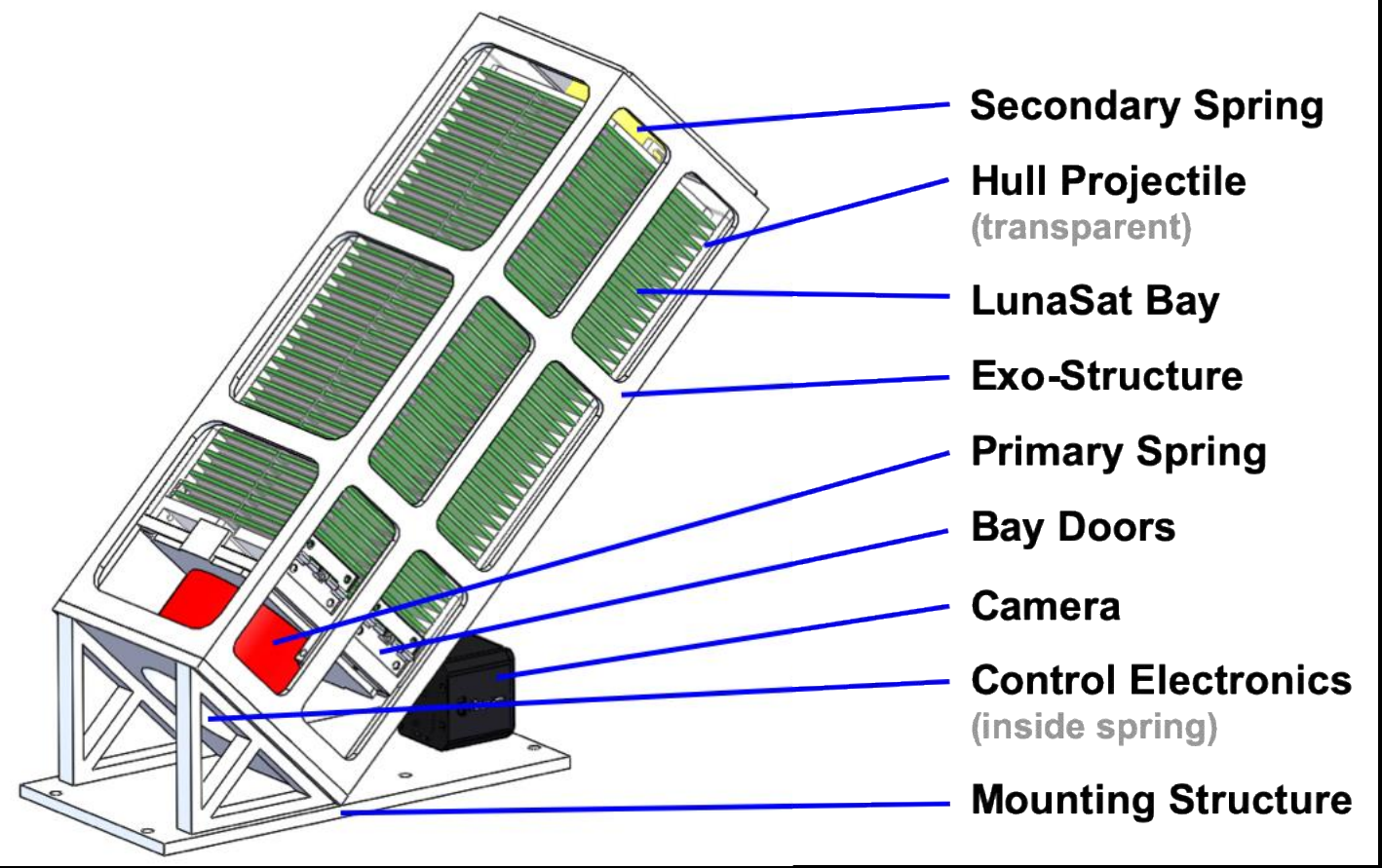
Engineering
UNIVERSITY OF COLORADO BOULDER
Engineering
GLEE

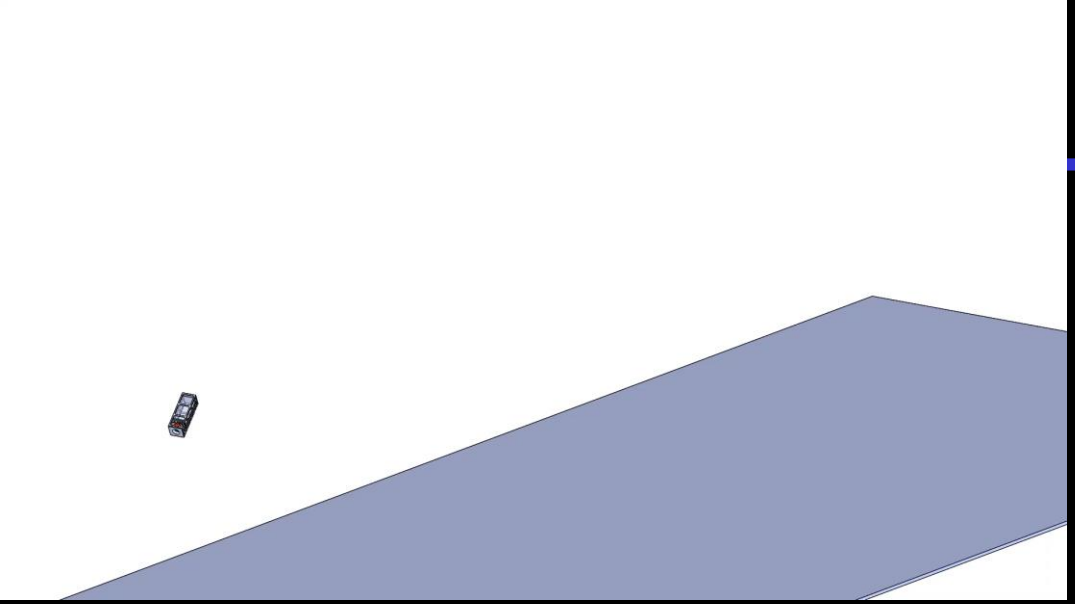
Post July 20, 2019…

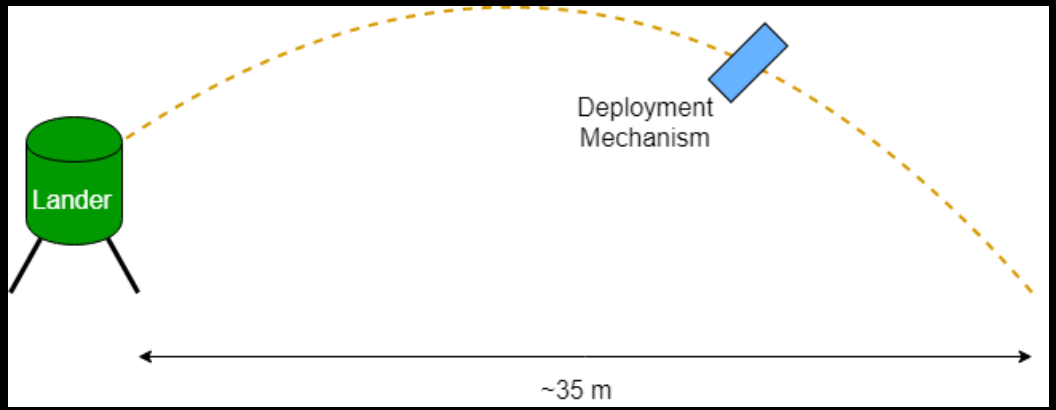
- Not littering the Moon…

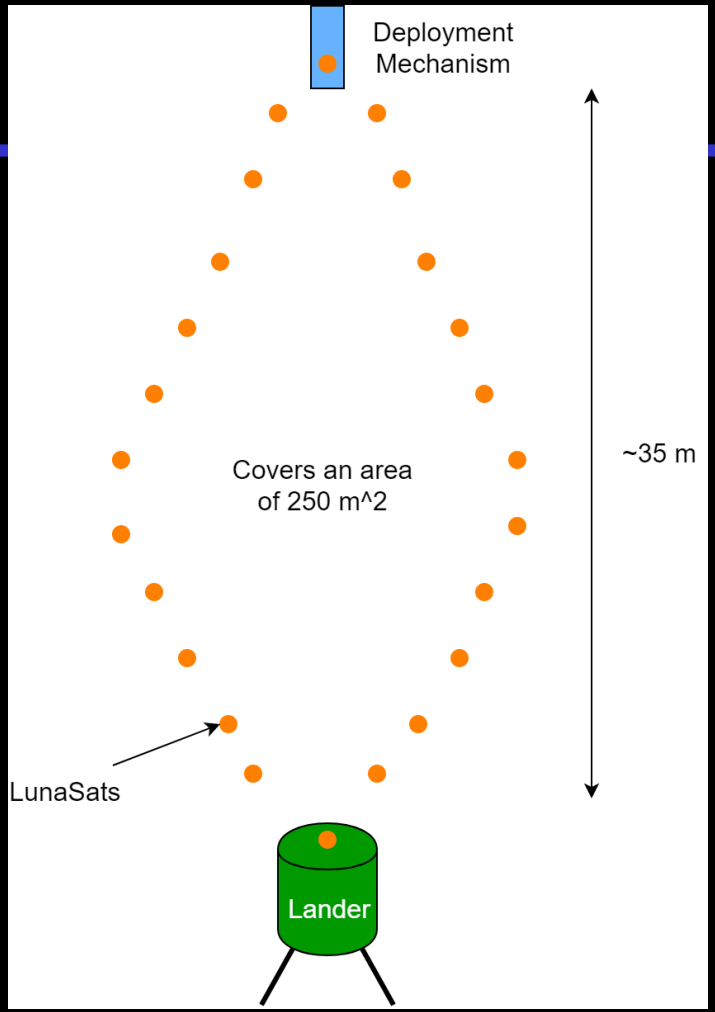


Post July 20, 2019…

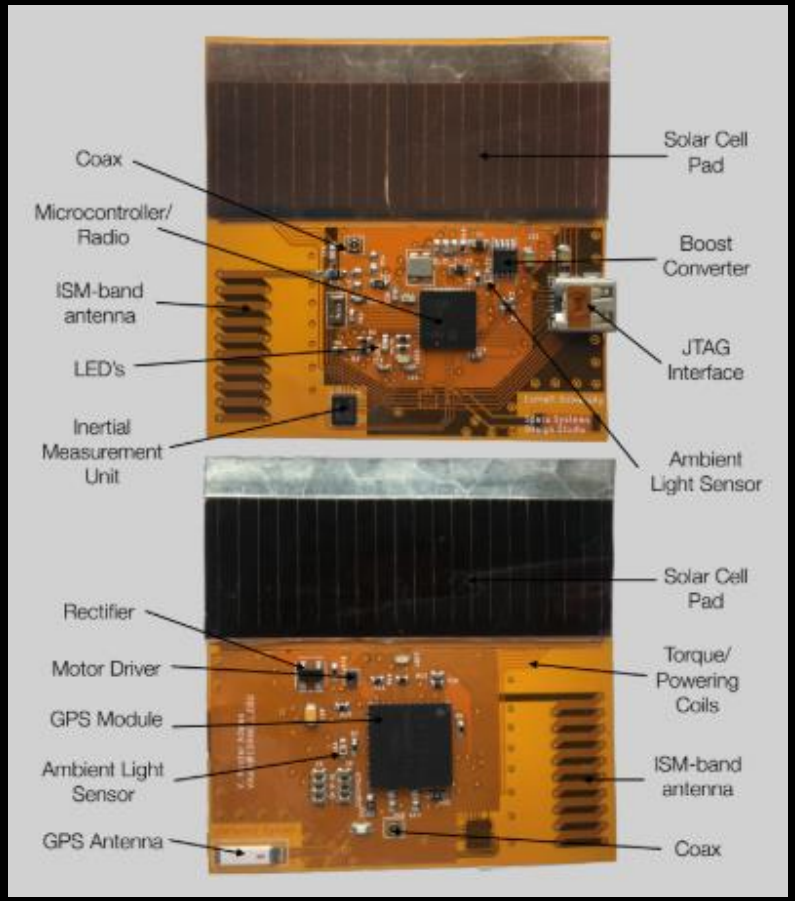


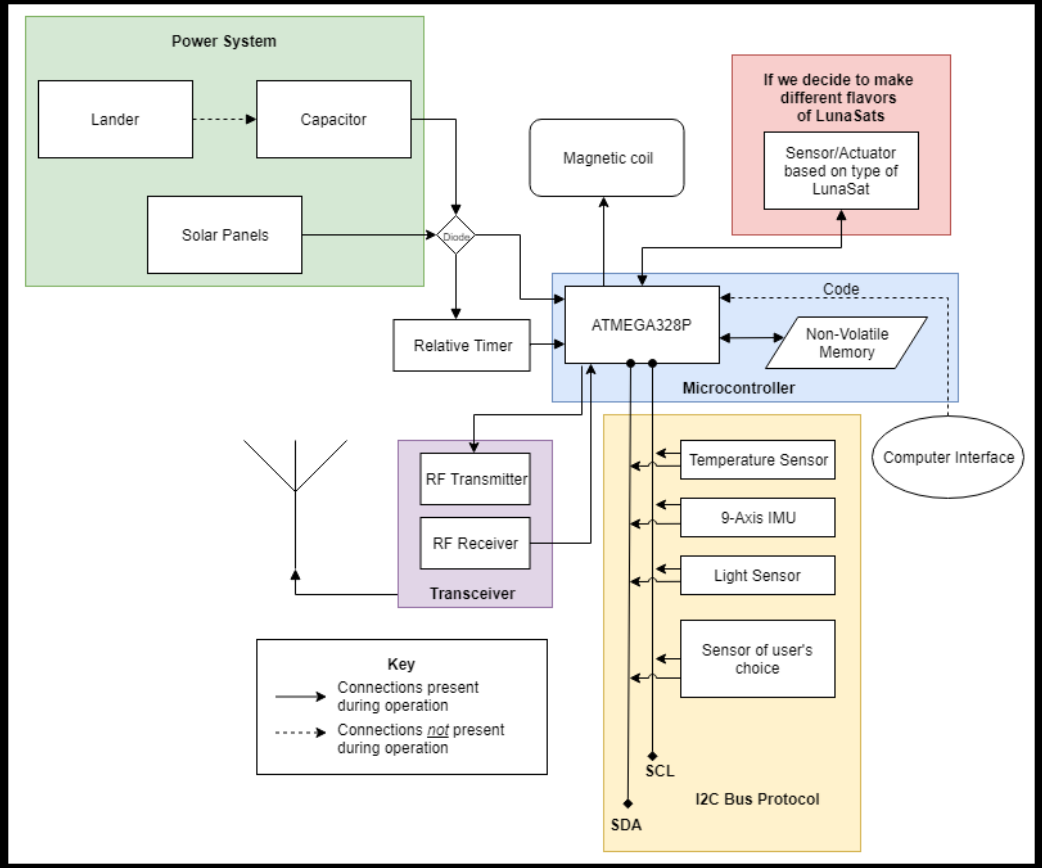



Deployment
Mechanism
Lander
~35 m


Deployment
Mechanism
Covers an area
of 250 m^2
~35 m
LunaSats
Lander

Post July 20, 2019…

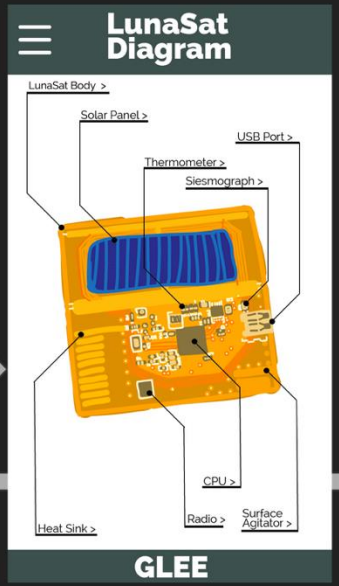




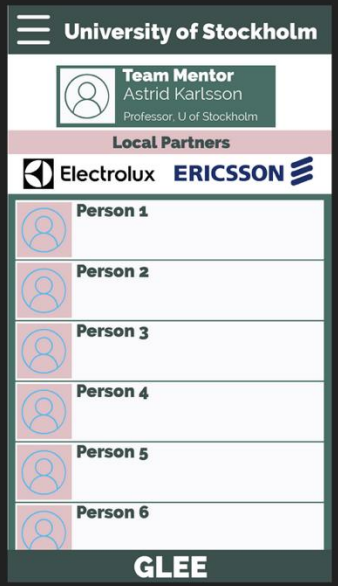
Post July 20, 2019…

Home Page

Map Page
- Info on Teams
- Can be Filtered

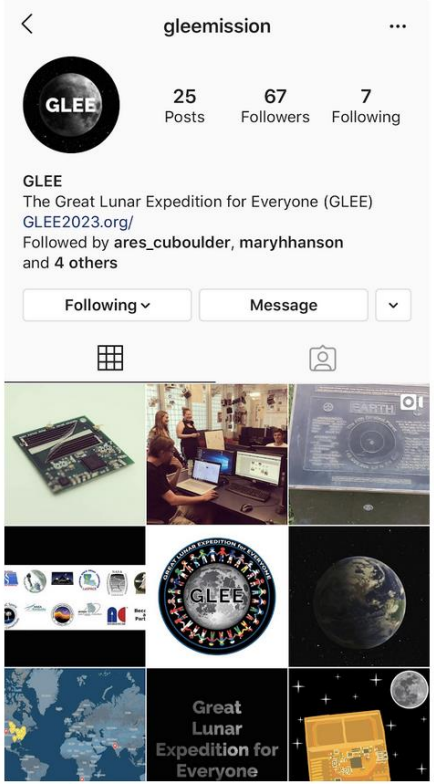


LunaSat Page
- Info on Parts
- Explains possible experiments



Team Page
- Info on Teams
- Partners
- Progress

Instagram: @GLEEMission



Twitter: @GLEE2023

UPDATES

Check in with our biweekly blog or see general updates.

VLOG

The Virtual Lessons on the Great Lunar Expedition for Everyone

New episodes biweekly!

December 2019…

- S/C and LunaSat at pre-CDR level
- Science mission menu complete
- Legal issues answered
- Team information released
- Some funding

What you can do?

- Join the telecons
- Talk about GLEE
- Support the student reviews
  - Expertise and possible student collaborations
- Plan for responses to proposal opportunities
- Network
- Think

GLEE

The Great Lunar Expedition for Everyone

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COSGC
COLORADO SPACE GRANT CONSORTIUM