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*National Space Club – Huntsville*  
**Educational Outreach and  
STEM Engagement**

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**2021 Year-in-Review**

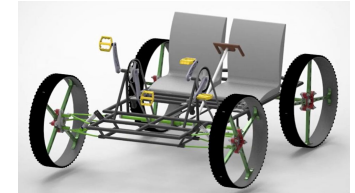


***Special thanks*** to all of our members for your help and particularly that of the NSC Education Committee!

# Educational Outreach: 2021 Year-in-Review



- NASA Human Exploration **Rover Challenge**



# Educational Outreach: 2021 Year-in-Review



- **NASA Student Launch** (held at various sites)



Elements:  
Unique NASA  
mission,  
Proposal,  
Design (PDR,  
CDR), and  
Launch (LRR,  
Post-Launch  
Assessment)



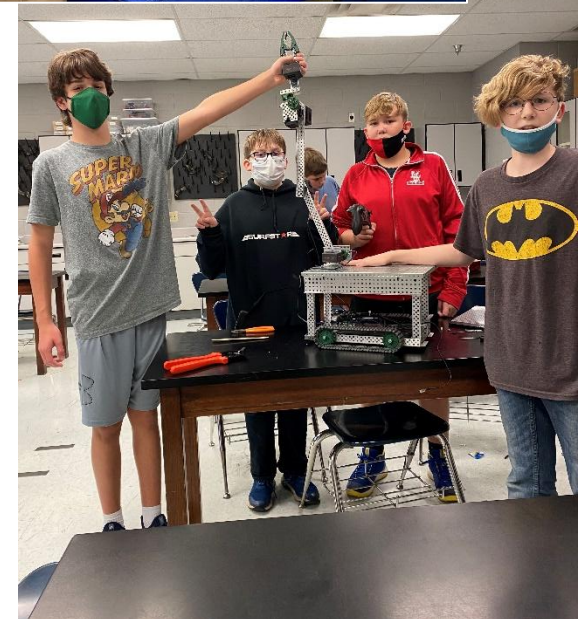
# Educational Outreach: 2021 Year-in-Review



- Assistance provided to various **Robotics Teams**



*Pictured:  
Meridianville  
Middle School*



Photos courtesy of:  
Cosette Lassiter  
Meridianville Middle School  
8th Grade Science

# Educational Outreach: 2021 Year-in-Review

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- **Scholarships** processed for **regional colleges & universities**
  - Alabama A&M University
  - Athens State University
  - Calhoun Community College
  - J.F. Drake State Community College
  - University of Alabama in Huntsville
  - University of North Alabama
- Evaluation completed; awards processed
  - 29 candidates, **13 awards**
- **NSC Child-of-member** scholarship processing completed
  - 4 candidates, **2 awards**
- Worked with **Marshall Association** and provided evaluation input on candidates
  - NSC provided \$5K in scholarship funding; total of **6 awards** processed.
- NSC was a Silver Sponsor for **AAMU's Black Tie Scholarship Gala** event
- Three teacher candidates selected from **TSF for National Board Certification**
  - Huntsville City, Madison City, and Madison County (**3 awards**)



# Educational Outreach: 2021 Year-in-Review



- **FIRST Robotics** – Local smaller competitive events were held (due to COVID) versus Regional at the VBC



# Educational Outreach: 2021 Year-in-Review



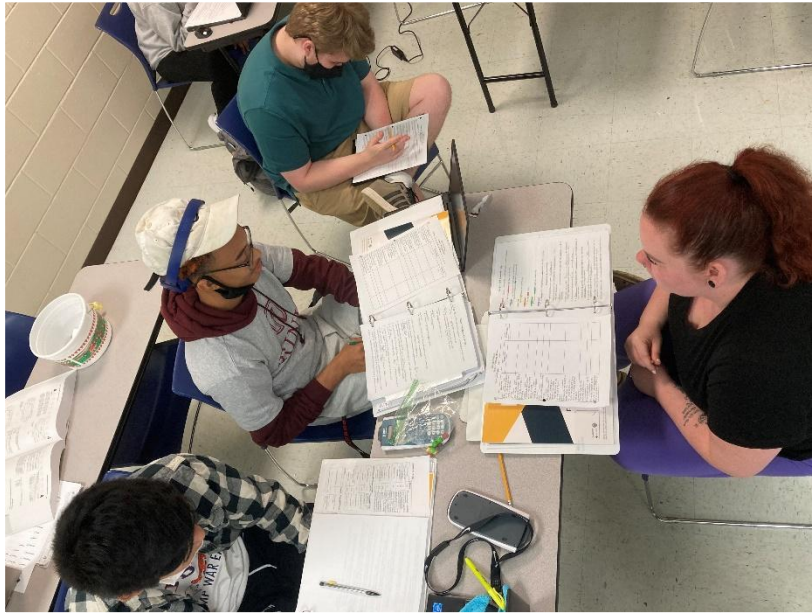
- FIRST Robotics (continued)**



# Educational Outreach: 2021 Year-in-Review



- **Cap and Gown** Summer Events



Hosted by  
Calhoun  
Community  
College



# Educational Outreach: 2021 Year-in-Review

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- **Green Power Team** - Whitesburg Middle School
  - Race at Milton Frank Stadium, Huntsville AL



# Educational Outreach: 2021 Year-in-Review



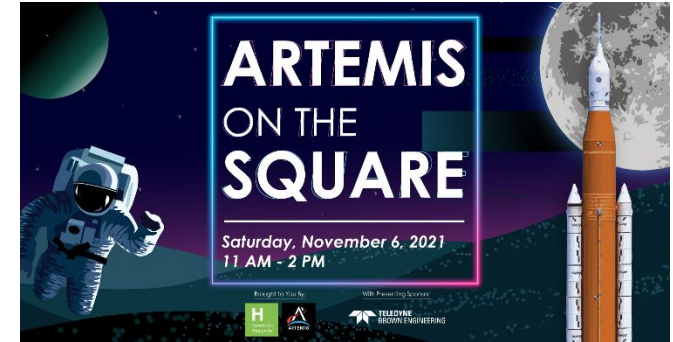
- Donation to the **Boys and Girls Club** for STEM Classrooms
  - Purchase of Robotic Kits (Match with SAIC)



# Educational Outreach: 2021 Year-in-Review



- Support for **STEAMFest** Event and **Artemis on the Square**



# Educational Outreach: 2021 Year-in-Review



- Investment in **Endowed Scholarships**: 2 Additions; 1 New



**AAMU** endowment increased to a value of \$100K

\* \$10K also added at Calhoun

**New Space Camp Endowment at USSRC for one teen girl and boy (underserved) In partnership with Cap & Gown**



# Educational Outreach: 2021 Year-in-Review



Oak Park Elementary

- STEM outreach event at the **Cook Museum of Natural Science**
  - Cost Match with the State of Alabama



Collins Elementary



# Educational Outreach: 2021 Year-in-Review



- **Aviation Challenge 30<sup>th</sup> Anniversary with the Tuskegee Airmen**



*30<sup>th</sup> anniversary of Aviation Challenge®*

DISTINGUISHED GUESTS INCLUDE TUSKEGEE AIRMEN AND  
NASA ASTRONAUT AND ARTEMIS TEAM MEMBER VICTOR J. GLOVER

*August 17, 2021 at 9:30 a.m.*



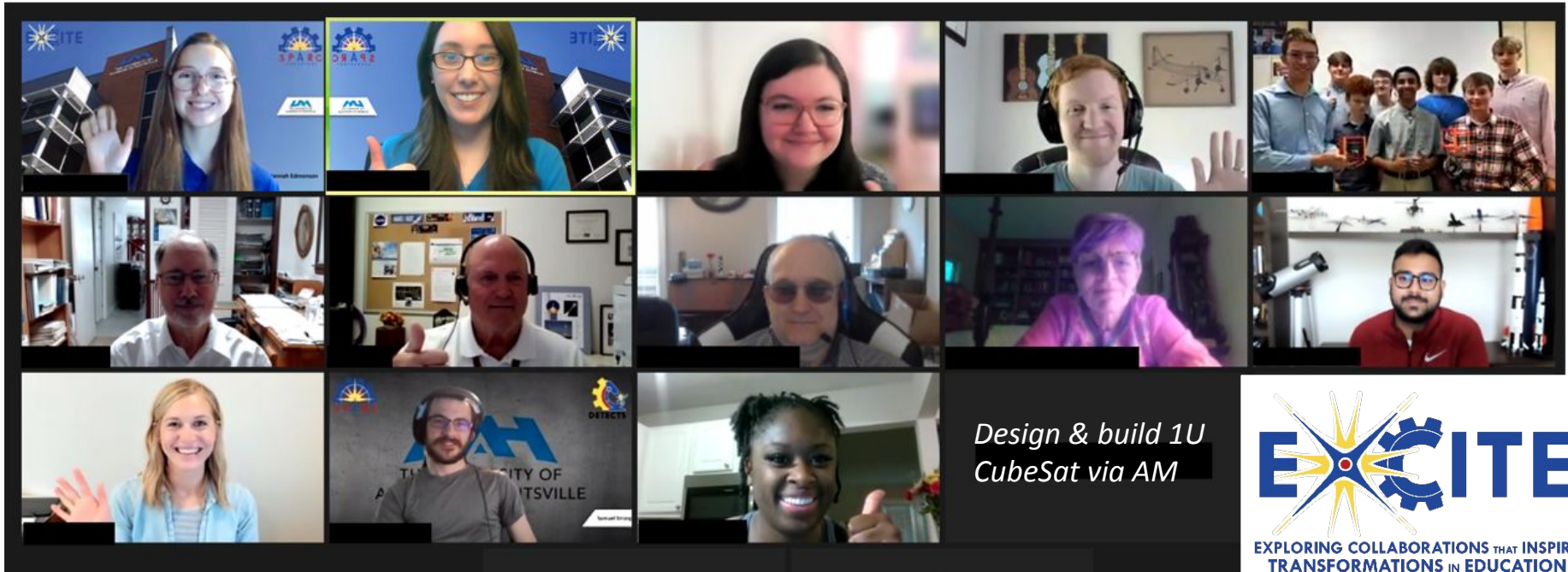
**U.S. Space & Rocket Center®**

*1 Tranquility Base, Huntsville, Alabama*

# Educational Outreach: 2021 Year-in-Review



- **UAH ExCITE** Final Review with Lincoln County High School



**NSC also helped fund UAH led efforts toward the execution of *InSPIRESS* and *DETECTS*...**



*Scientific payload for a planetary science mission*



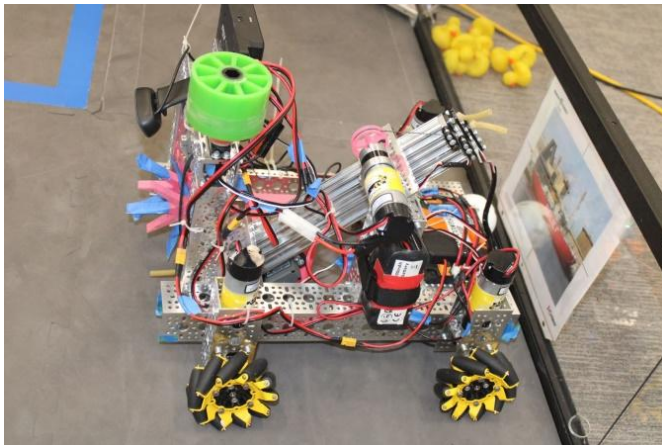
**DETECTS**

*Raspberry Pi experiment for ISS*

# Educational Outreach: 2021 Year-in-Review



- Support for **Nerdette's Robotics Team** (and new Gear Girls)





# Educational Outreach: 2021 Year-in-Review



- The **Von Braun Memorial Dinner** is our key event and primary source for continued STEM outreach funding.



# Educational Outreach: 2021 Year-in-Review



- Von Braun Memorial Dinner



***Recognizing:  
Scholarship  
Winners,  
Teachers,  
Educator of the  
Year, and Rising  
Star***

# Educational Outreach: 2021 Year-in-Review



- Three teachers were selected through our partnership with **The Schools Foundation for National Board Certification**
  - Huntsville City, Madison City, and Madison County School Systems
  - Recognized at the Von Braun Memorial Dinner



## Educational Outreach: 2021 Year-in-Review



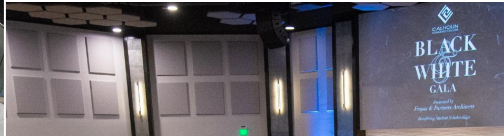
- Partnered with the **Marshall Association** and provided scholarship funding for **6 awards**.
  - Recipients recognized at NSC breakfast event



# Educational Outreach: 2021 Year-in-Review



- **Calhoun B&W Gala** to raise Scholarship Funds



# Educational Outreach: 2021 Year-in-Review



- Student groups routinely were our guests at **NSC breakfast events!**



# Educational Outreach: 2021 Year-in-Review



- UAH Space Hardware Club and Rocket Team



# Educational Outreach: 2021 Year-in-Review



- **Hudson Alpha** Science Class Field Trips

