



**TAKE YOUR CHILD TO
WORK DAY (TYCTWD)
SPRING 2022**

R2C, INC.'S STEM OUTREACH

THE WHY OF TYCTWD

To provide an enriching educational experience for our employees' children that exposes them to what the adults in their lives do during the work-day, while teaching them the value of their education and providing them with an opportunity to envision their future.

INTRODUCTION TO R2C

Our President and CEO, Robert Wilson, introduces our future generation to R2C and its family!



FABRICATION SHOP TOUR



HR Specialist and AFSO, Montoya Alvidrez gives the STEM class a safety brief before they start moving through the production area.

FABRICATION SHOP TOUR

Annette Ward and Marcie Gatlin did a fantastic job explaining what goes on in the fabrication shop.





FABRICATION SHOP TOUR CONTINUED

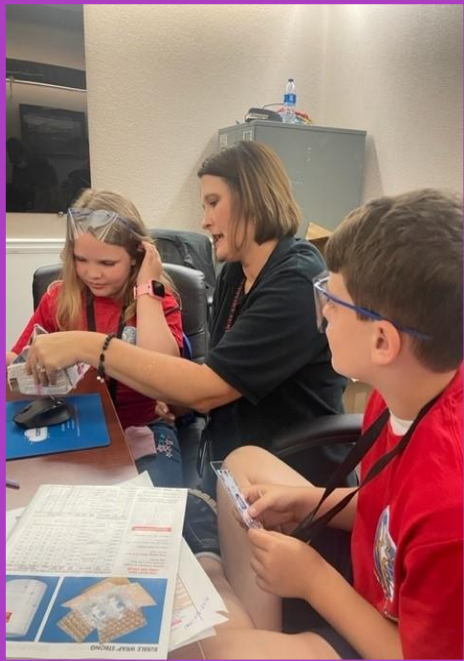


FABRICATION ACTIVITY



After the tour of the Fabrication Shop, the kids headed back into the conference room for a fun activity. In this activity the kids were to build a harness that would carry an egg safely from one end of a string to another.

OUR FUTURE STEM STUDENTS WORKING ON THEIR HARNESSSES.



“EGG”CELLENT RIDE

Once the harnesses were “manufactured” and the eggs thought to be secured, it was time to head outside to test their designs.





MACHINE SHOP TOUR

Brian Ingram and Gregg Sogers expertly kept the children's attention as they explained the work their team does in the Machine Shop.



WAREHOUSE TOUR

David Hosmer demonstrated the importance of keeping the warehouse organized and stocked. He also did an excellent job of answering a lot of questions.



3D PRINTER TOUR

- Rob Crawford entertained the STEM students with his knowledge and workings of the 3D Printer.
- The students were then handed a 3D printed part for their engineering project.

MECHANICAL DESIGN BRIEF

Alistair Douglas and Patrick Costilow walk the class through what mechanical design entails and a bit of the process involved designing the necessary products.





DESIGNING CARS

After the mechanical design brief, Alistair and Patrick let the children design cars using their own idea of what a fast car would look like and how they would make it go. While the children were working on their designs, they explained that Mechanical Engineering is only limited to your own imagination.



ENGINEERING BRIEF

Matt Youngkin and Tristan Phillips delivered an engineering brief and demonstrated the effectiveness of the “invisibility shield” not allowing heat to be detected behind it.

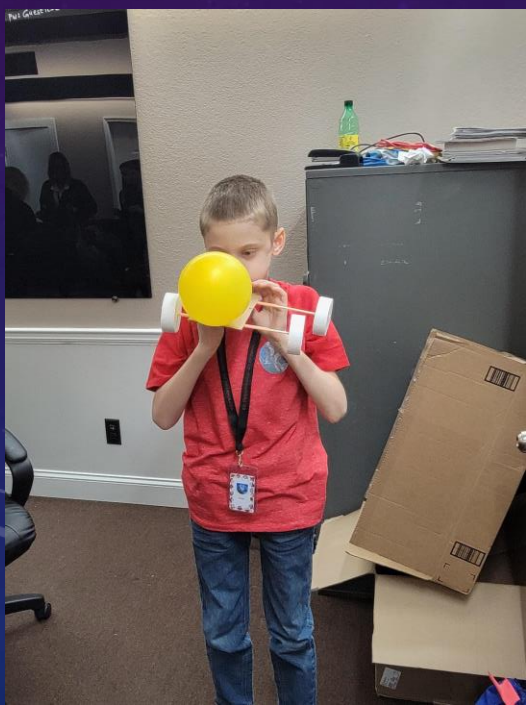


BALLOON CAR BUILD

When the brief ended, the STEM students were handed kits to build balloon power cars while also incorporating their 3D printer part into the build.



BALLOON CAR BUILD CONTINUED





LET THE CARS ROLL!

Once done building the balloon cars, the children headed outside to test and race the vehicles! Who do you think will win?

SOLAR POWER

After seeing the effects of the balloon on their cars, the children were able to interact with tiny vehicles that were power by the sun, in other words Solar Powered.



HOW ABOUT SOME POPICLES ON A NICE WARM SPRING DAY?!

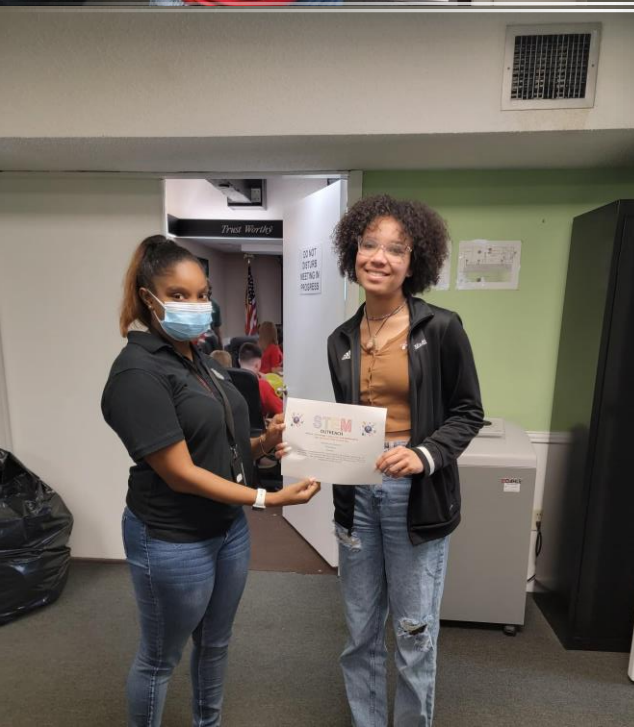
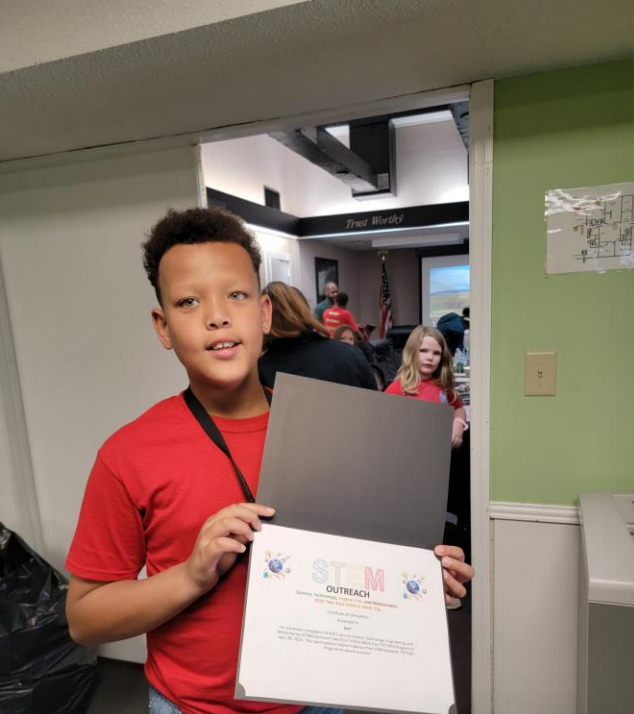
Taking a nice refreshing break from racing balloon cars.





TECHNICAL PUBLICATIONS

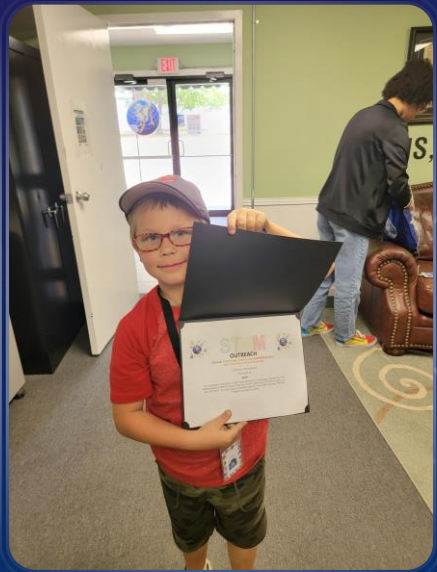
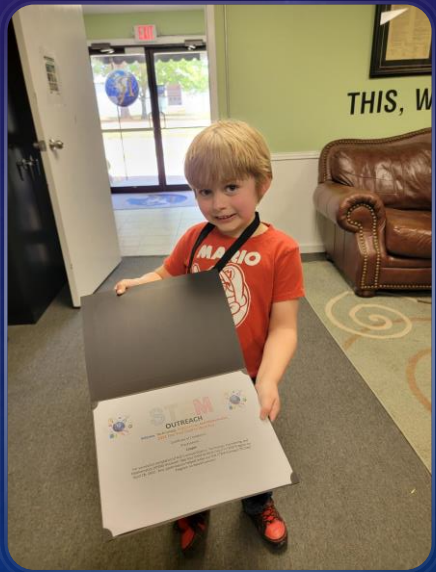
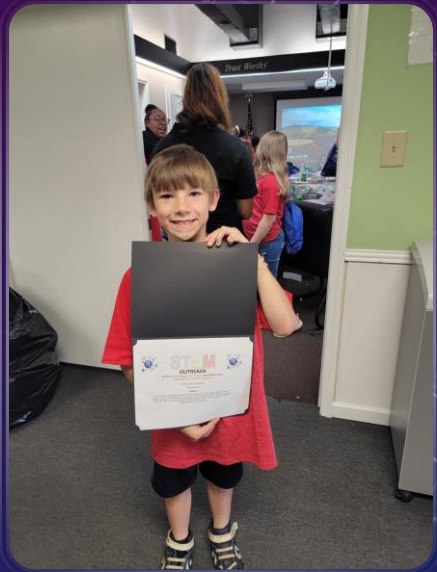
- Romair Anderson and Jerome Coverson taught the STEM students that websites and mechanical objects have a sometimes-complex coding matrix. Without the proper sequence of code, the web page or object may not work.
- They expertly demonstrated the complexity of their position by showing “Baby Shark” in coding format.

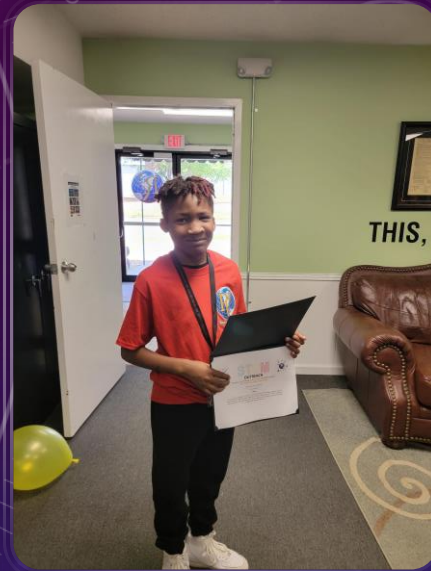


CERTIFICATES!

The STEM students received certificates for all that they had learned during the day.

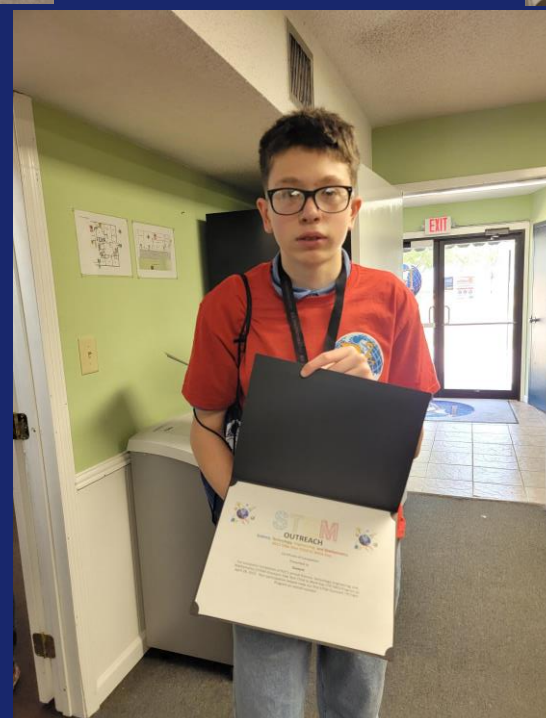
CERTIFICATES!





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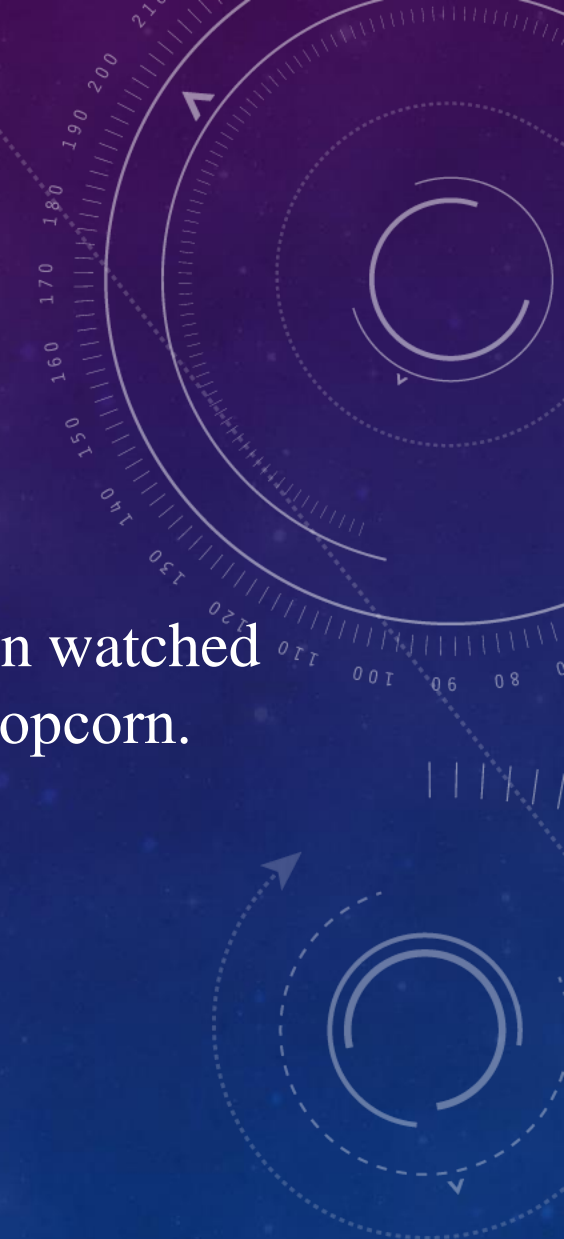
CREATING THE FAMILY TREE





MOVIE/POPCORN

To wrap up the day, the children watched “Mars Needs Moms” and ate popcorn.



2022 TAKE YOUR CHILD TO WORK DAY





THANK YOU EVERYONE WHO
PARTICIPATED AND HELPED
MAKE TYCTWD A SUCCESS!