



# STEM Tech News

## SUSTAINABILITY AND RENEWABLE ENERGY



Donated 3D printer –Thank you United Way!



The Phoenix and Angel Diamond Teams



The Flash Team

### 3D Printing with The United Way

Introducing our children to the world of 3D printing is one of the many ways in which we are helping them create a brighter future. Our new Dremel DigiLab 3D printer, graciously donated by the United Way, will be invaluable for our future 3D printing classes. The printer has a maximum build volume of 10"x 6" x 6.7" which allows for unlimited creativity. We can print anything from trinkets for the FIRST Robotics Team to nuts, bolts and the wrench to use them. Imagine the usefulness of such an ability for anyone who wants to settle on the Moon... or Mars! 3D printing is being used to solve challenging problems today from affordable housing to artificial limbs. This new technology can be applied to many different problems in many different fields. The opportunity for innovation is tremendous and we are so grateful that our children will be able to become familiar with this technology.

## EnergyWhiz – Solar Sprint

EnergyWhiz is a renewable energy focused event for students to demonstrate their science, technology, engineering, art and math (STEAM) capabilities through project-based learning activities. The Junior Solar Sprint, one of the activities, encourages teams composed of children from grades 4-8 to produce a model-sized solar powered car that is judged on technology, craftsmanship, innovation and performance. This event is hosted by the Florida Solar Energy Center and the University of Central Florida (UCF), in partnership with Eastern Florida State College (ESFC). This year we had three teams compete in the Jr. Sprint:

The Phoenix- Edwin and Julyus  
The Flash- Madison, Alisha, Malachi, Tristan and  
Angel Diamond- Angie and Simberly



Malachi and Tristan waiting their turn to race, solar car in hand

### Army paves the way to TSA

We are partnering with the Army, for the second year in a row, to participate in the Jr. Solar Sprint hosted by the Technology Student Association (TSA). This year the event will be near Washington, D.C. from June 28–July 2.



Our teams at the judging table



KEYWORD

# Julyus took 4<sup>th</sup> place in Running Zone’s Superhero 5K race

Mike Morrison, our STEM Volunteer, has introduced running to our kids. Julyus joined Mike at the Superhero 5K race and took 4<sup>th</sup> place.

This was the seventh annual Super Hero Race Against Child Abuse. It is an event for the entire family to benefit abused and neglected children in Brevard.

Julyus says, “It felt like a very long race, but I know not to every give up. It was fun with Mr. Mike.”

“It was fun and he was ahead of me in the end, but I could see him,” said Mike.

“The event is hosted by the Friends of Children of Brevard, a non-profit 501(c)(3) registered in Florida. All proceeds benefit the abused, abandoned and neglected children of Brevard County and support the Guardian ad Litem Program.”

Julyus went on to win first place in both the 200-meter race and the 400-meter race at the track meet at Eau Gallie High School in April.

Congratulations Julyus!!

<https://secure.runningzone.com/Race/FL/Viera/Superhero>



Julyus demonstrating his form during the race on February 2 at Viera, FL.



Thank you, Brianna Owens, student at EFSC for the Easter Basket for the kids.

## STEM Tech Prodigy

*Changing the world one child at a time!*

Meet Darin Garland, an Eau Gallie High graduate. Darin was one of our neighborhood children. He regularly used our computer and engaged in school projects, research and other homework assignments at STEM Tech.

Darin is currently attending South Eastern University, in Lakeland, Florida. He was awarded a \$19,000 scholarship.

Congratulations on your scholarship and keep thriving for greatness!



Freshman Darin Garland wins Birmingham-Southern Invitational title in the triple jump in a new school record jump of 14.62m. His jump qualifies him “A” standard for the @NAIA Outdoor Nationals in Gulf Shores, AL. Currently #1 in the country.



## STEM Scholarships and Opportunities

There are many scholarships available to college bound students interested in Science, Technology, Engineering and Math (STEM) degrees. College costs can seem discouraging, however, there are plenty of opportunities for our under represented youth, if they apply.

Please look at some of the sources we have found online:

STEM Study  
<https://stemstudy.com/stem-scholarship-search/>

FIRST scholarships:  
<https://www.firstinspires.org/scholarship-results>

SMART Scholarship Program:  
<https://usascholarships.com/smart-scholarship-program/>

NASA Internships:  
<https://intern.nasa.gov/>

### Volunteer Corner

## Jason and Matthew

Jason and Matthew have been helping us to use solar energy by creating a solar tracking model to track and capture the best of the sun’s rays. The model will be used to help offset the cost of electricity to our building. It is a clean alternative to energy production.

They have also been 3D printing specialty parts for us as we organize our boxed LEGO sets.

Thank you both for all you do!



