

Rutherford Works Summer Camps

June 2018

Highlights



Summary

Rutherford Works Summer Camps are week-long camps held in various locations around the county throughout the month of June. Our summer camps are designed to help 3rd-12th graders get hands-on experience with the skills necessary for today's STEM careers.

Technology skills are critical to our community and future, as Rutherford County is expected to grow more than 10,000 STEM jobs in the next 10 years. From coding to robotics to supply chain management, Rutherford Works Summer Camps are designed to help students explore various aspects of technology. Our goal is to teach students to utilize the technology that exists today so they will be able to comfortably incorporate it into their future careers.

The Summer Camp instructional team consisted of seven of Rutherford County's best educators including: Tim Carey (Barfield Elementary, Instructional Technology Coach), Herman Nelson (Code.org, Murfreesboro Computer Science Fundamentals Facilitator), Bobbie Jo Meredith (Rocky Fork Middle, STEM), Zach Martin (Blackman Middle, STEM), Kevin Welch (Stewarts Creek Middle, STEM), Emily Hines (Central Magnet, Computer Science), and Cliff Wellbourn (MTSU, Supply Chain Management).

2018 Summer Camps made possible by local community partners:



Feedback



“Students learned programming concepts and gained hands-on experience applying those concepts with microprocessors” says Emily Hines, High School Camp Instructor & Computer Science Teacher, Central Magnet.

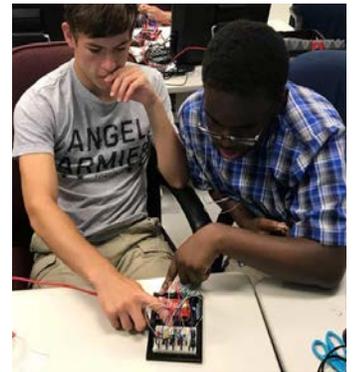
When surveyed, 88% of parents said their student liked the camp so much they would sign them up again next year!

Parents also said:

“Great use of time and he learned a lot.”

“It added great value to his knowledge and excitement. This is an area that will benefit him in the future.”

“Definitely wants to go to next year’s camp.”



Outcomes

- 30 students learned engineering basics with the Little Bit® STEAM kit through challenges using sensors, motors, and other key components.
- 20 students took on the role of professional engineers and learned the basics of programming languages & electric circuits with the Microbit, a tiny computer the campers controlled with code.
- 10 students and 4 teachers participated in hands-on workshops at 5 different local companies to gain understanding of Supply Chain Management concepts, allowing campers to see how concepts are applied in the business world.
- 21 students learned the basis of physical computing by way of MIT’s Scratch coding platform, which allowed students to program their very own mini game controller.
- 71 students were able to take home technology from camp for further exploration and practice.

