

CORE4 STEM

<https://theconnectory.org/program/core4stem-family-day-at-san-antonio-college>

TOTAL HOURS : (6 hrs, 3 people) 18 HR

SUMMARY

CORE4 STEM Program is a three-day celebration of education and career opportunities in STEM with the goal of stimulating students' interest in the sciences and leading them to discoveries about their own potential in these areas, providing immersion in the excitement, surprise, and fun inherent in the sciences.

| WHO | WHAT | WHEN | WHERE | WHY |
|----------|----------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------|-------------------------|
| All ages | Activities and demonstrations about Robotics, CSI, Virtual Reality, conservation, rockets, and 3D technologies | November 3, 2018 | San Antonio College San Antonio, TX | Engage students in STEM |

ACTIVITIES

ROBOT DEMONSTRATION

We will be bringing in our robot from the 2017-2018 Relic Recovery season. We will be teaching kids about structure and function, the competition, and what we do in robotics. Ideally, exposure to the program and its components will inform students and parents about opportunities for them to get involved in STEM and encourage them to participate.

TALKING ABOUT *FIRST*

Brochures explaining *FIRST* and its programs will be passed out to students and parents. Additionally, members will be answering any questions that the parents may have about robotics.

SCRIBBLE BOTS

<https://lemonlimeadventures.com/scrabble-bot/>

Simple make-and-take robot composed of a motor, paper cups, and pens. The final creation spins and struts on a table while also leaving behind drawings that display its movements.

Ajax Scientific Round Mini Motor 1.5-3V, 8.5mm Shaft Length x2 (\$16)

Clothes pins, cups, markers, tape, glue, 9V battery / holder

OUTCOME

PARTNERSHIP WITH **SAN ANTONIO HISPANIC CHAMBER OF COMMERCE**

<http://www.sahcc.org/programs/core-4-stem/>

The San Antonio Hispanic Chamber of Commerce is the leading resource, advocate, and access point for Hispanic businesses, Hispanics in business, and the Hispanic market.

VISITED THE **SAN ANTONIO COLLEGE**

We now have some connections at the San Antonio College now. Proud to be a SAC.

EXPOSING YOUTH TO STEM PROGRAMS

The most effective way to get children involved in the STEM field is by exposing them to programs that allow them to explore topics in science, technology, engineering, and mathematics. By granting students creative freedom and encouraging them to solve problems in innovative ways, students will be better prepared for the future and possibly find a passion for STEM in the process.

PROMOTING **FIRST**

This event will allow us to spread recognition for *FIRST* and its programs. We have created brochures that explain *FIRST* values and programs, and includes information regarding how parents and students can bring the program to their communities.

POST-EVENT REFLECTION



- **100 attendees** visited our booth. We had the opportunity to introduce parents, teachers, and students to *FIRST* programs and the world of STEAM.
- We handed out **20 brochures** to families, and several of the parents were interested in recreating this STEAM experiment in their own communities, as well as inviting us to their area.
- Our members worked with several waves of group of up to **14 students at a time** within the span of **4 hours**.
- Students were engaged in a **hands-on learning experience** and a unique opportunity to **build their very first robot**. Many of the girls were drawn to the implementation of art into STEM, and their eyes lit up when their robot worked and drew them a unique picture.
- **Summary:** We connected with **San Antonio College** and the **San Antonio Hispanic Chamber of Commerce**. Students were introduced to *FIRST* and learned the basics of **hardware, circuits, and problem-solving** with our Scribble Bots activity.