TALKING PAPER

ON

COMMUNITY OUTREACH IN STEM AT FLORIDA TECH

- At Florida Tech, the AIAA branch is committed to promoting STEM education by providing interactive experiences for students in a fun and engaging way.

   o These events provide an inclusive and accessible environment for all students and are an effective way to develop problem-solving skills, encourage collaboration, and foster hands-on learning.

- The Florida Tech AIAA branch held two major events for K-12 students.

   o The first event was held at Freedom 7 Elementary and introduced basic engineering concepts to the students.

   o The event held activities to introduce engineering applications and show off what Florida Tech has to offer within the STEM fields.

   o The second event allowed the students to learn about space exploration and planetary defense through simulations provided by Aerospace Corporation.

   o This event would help students learn about asteroid deflection and the challenges associated with identifying and mitigating potential threats.

- The underclassmen events included building a glider aircraft, assembling a model rocket and launching L1 amateur rockets.

   o The glider aircraft event provided the students with the opportunity to learn about flight, aerodynamics, and the design and construction of an aircraft.

   o The model rocket event's primary purpose was to expose underclassmen to basic rocket design and principles of rocket propulsion.

   o The L1 amateur rocket event involves students constructing larger rockets and teaches more about rocket motor classifications and the importance of adhering to safety protocols and regulations.