

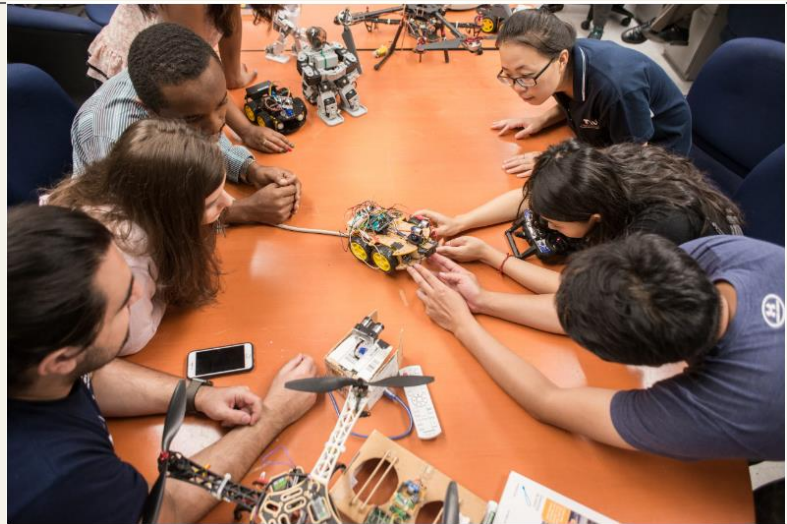
AMERICAN SENIOR HIGH SCHOOL
ENGINEERING ACADEMY FOR STUDENT EXCELLENCE



ENGINEERING ACADEMY NEWSLETTER

The 2023 MDCPS Water Bottle Rocket workshop was held at American Senior High School Saturday, October 7th. Parents, teachers, and students from Miami Dade County schools designed and launched water bottle rockets. Each team brought their own creativity and talent to the design and the rockets were launched from the center of the softball field as rockets were timed to determine how long each team's water bottle rocket stayed in flight.

FIU Brings Dual Enrollment Engineering Classes



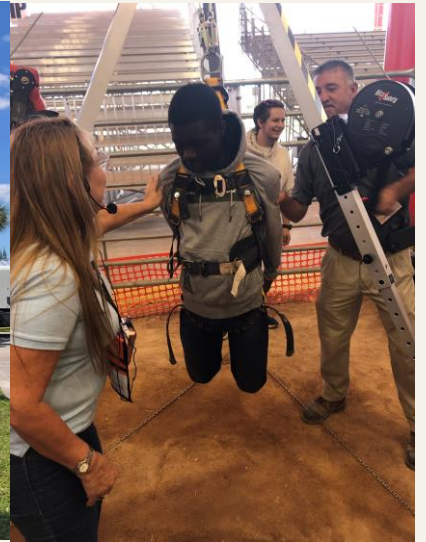
FLAME, Florida Action for Minorities in Engineering, is a joint program between Miami-Dade County Public Schools and FIU. Under the Center for Diversity and Student Success in Engineering and Computing (CD-SSEC), this program is designed for high school students to provide a unique educational experience in the field of Engineering. FLAME engages students that are admitted to a high school engineering academy and exposes them to a challenging curriculum focused on real-world applications and project-based learning. The program's non-credit component, encourages students to participate in college-sponsored student organizations and competition teams, and provides individualized tutoring from graduate student mentors. Throughout the academic year, students will participate in industry-focused workshops and attend lab tours that incorporate cybersecurity, artificial intelligence, robotics, 3D printing, biomedical technologies, and more.



AMERICAN SENIOR HIGH SCHOOL
ENGINEERING ACADEMY FOR STUDENT EXCELLENCE



CONSTRUCTION CAREER TRIP



The Engineering Academy students were invited to participate in the Construction Career Day at Bergeron Rodeo Grounds where they competed to determine who was able to build the most stable bridge. Students also demonstrated the effects of alcohol and sensory altering drugs by wearing goggles and helmets while trying to pick up pencils. Some students, like Osasenaga Agbons pictured above, demonstrated the effectiveness of a harness and cable hoist to support workers as they conduct activities at high altitudes or in areas where support is compromised. Hosted by the Florida Department of Transportation

SECME & AICE Collaborate on College Tour

The Engineering and Cambridge Academies traveled to Florida Gulf Coast University, University of South Florida, Florida State University, Florida A & M University, the University of Florida, and the University of Central Florida. The goal of the trip was to expose students to college atmospheres, admission requirements, student bodies, and accommodations of each campus. The FGCU tour focused on First Generation students who would be the only members of their families to have attended college. On the campus of FAMU, students were able to see corporate partners and speak with American alumni. At UF all the amazing opportunities were shown by Jordan Molina c/o 2022 and at UCF Seth Brown, c/o 2023, provided information regarding early admission and campus housing.

