

AMERICAN SENIOR HIGH SCHOOL  
ENGINEERING ACADEMY FOR STUDENT EXCELLENCE



# ENGINEERING ACADEMY NEWSLETTER

## 2023-2024 Schedule

- Aug. 15<sup>th</sup> – CTE Opening
- Aug. 30<sup>th</sup> – FIU trip
- Aug. 31<sup>st</sup> – Club Fair
- Sept. 16<sup>th</sup> – FRC Mentor Mtg.
- Sept. 27<sup>th</sup> – Tap Day
- Oct. 6<sup>th</sup> – College Fair
- Oct. 7<sup>th</sup> – Rocket Workshop
- Nov. 8-10 –College Tour
- Dec. 9<sup>th</sup> – VEX Jinglebots
- Jan. 6<sup>th</sup> – FIRST Kickoff
- Feb. 3<sup>rd</sup> – SECME Olympiad

## Six American Patriots win Honorable Mention in National SER Competition



The **SER STEM Program** was launched in response to the meager numbers of underrepresented minority high school students who are considering careers in STEM. The goal is to encourage students to attend higher education and pursue STEM-related careers. Five years ago, SER National rolled out three components of the SER STEM Initiative: the SER Conference STEM Program, the SER STEM Day, and SER Robotics. Each year the SER STEM Day provides access and opportunities in STEM fields to over 5,000 disadvantaged students by opening their eyes and minds to a future of possibilities. The SER STEM Day starts with a plenary session with a distinguished speaker such as José Hernández (retired NASA Astronaut). From there, the students go to an exhibit area, workshops, and hands-on coding sessions taught by subject matter experts representing corporate and government employers. Janaysa Dorcin, Alexa Toribio, Skylar Byrd, Joshua Alfaro-Garcia, Seth Brown, and Osasenaga Agbons (not pictured) won honorable mention for their participation.



**AMERICA  
ON TECH**

**2023 - 2024**

### TECH FLEX LEADERS

FOR HIGH SCHOOL STUDENTS IN MIAMI-DADE AND BROWARD COUNTY!

**PROGRAM OVERVIEW**  
The Tech Flex Leaders (TFL) Program is an immersive out-of-school time program for juniors and seniors enrolled in a Miami-Dade or Broward County high school. This program engages students interested in technology through:

- Weekly technical training sessions led by industry experts
- Intersectional professional development sessions
- Career days and mentorship opportunities with representatives from leading technology companies
- Paid summer internships and job opportunities through the AOT employer partner network

**TECH FLEX LEADERS CURRICULUM**  
During the fall semester students learn **HTML, CSS and Bootstrap** and complete a final web development group project. During the spring semester students choose to pursue one of the following tracks: **Advanced Web Development, Product Management, UX Design, Digital Marketing, or Data Science.**

**ELIGIBILITY REQUIREMENTS**  
Applicants for the 2023 - 2024 program must:

- Be a rising junior or senior enrolled in a Miami-Dade or Broward County public or charter high school
- Be interested in careers in computer science / technology
- Be available for virtual sessions once a week, Monday-Thursday from 4:30 p.m. - 6:30 p.m. during the 2023 - 2024 school year
- Be available to attend in-person sessions approximately four (4) times a semester
- Be available to attend two (2) mandatory virtual Office Hours over the course of the semester to connect with program leadership

**EARN  
\$1000!**



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## Janaysa Dorcin Wins FPL-SECME Scholarship



FPL is committed to supporting our communities to help make them better places to live, work and raise a family. One way they do this is by supporting education programs that enrich students' experiences, as it relates to science and math programs, and which many times help break down barriers to opportunity. This new scholarship will help further our state's future leaders as they pursue a higher education.

As part of our commitment to STEM education, we will award 10 graduating high school seniors who have at least one year of experience in SECME with a scholarship up to \$20,000. Janaysa Dorcin was awarded a 2023 scholarship to assist with her education at Harvard University. Her efforts in SECME Club activities, the SECME Olympiad Essay, FIRST Robotics Competition, and the Water Bottle Rocket workshop highlight her contributions.

