GENTLEMEN'S QUEST

2024 STEM QUEST IMPACT REPORT

THANK YOU TO OUR 2024 COMMUNITY PARTNERS & SPONSORS!

The 2024 STEM Quest Summer Camp was a transformative experience for its participants. Over the course of the camp, students engaged in a variety of hands-on learning activities aimed at fostering their interest and skills in science, technology, engineering, and mathematics (STEM). They began by assembling BMX bikes, learning the mechanics and teamwork required for successful construction. This practical exercise not only taught them about mechanical engineering but also emphasized collaboration and problem-solving.

As the camp progressed, students delved into more complex projects, including designing and creating 3D prototypes integrated with functional wiring. These projects challenged their creativity and technical abilities, pushing them to apply their newfound knowledge in practical applications. Additionally, the camp provided invaluable exposure to diverse STEM careers through guest speakers and site visits, inspiring students with real-world examples of STEM in action.

The culmination of their efforts came in the form of the capstone project, where teams developed innovative solutions to address local business challenges. This final challenge encouraged critical thinking, communication, and leadership skills as students presented their solutions, showcasing their understanding of engineering design principles and their ability to solve practical problems in their community.

Youth Served by Area:

Riverview/Ruskin	9
East Tampa	9
Pasco	4
North Tampa	4
Brandon	2
Valrico	1
Citrus Park	2
Plant City	1

Youth Served by Gender:

Boys	32
Girls	0

Youth Served by Ethnicity:

African American	29
Hispanic	2
Bi-Racial	1

Youth Served by Household Income:

Under $20,000	1
$20,000 - $34,999	4
$35,000 - $49,999	10
$50,000 - $74,999	7
$75,000 - $99,999	2
Over $100,000	8

Youth on Free or Reduced Lunch:

Yes	19
No	13

Outcomes:

- ✓ 32 out of 32 participants successfully designed innovative solutions to improve energy efficiency for local businesses, creating 3D prototypes and integrating functional wiring.
- ✓ 32 out of 32 participants facilitated a presentation using a PowerPoint presentation.
- ✓ 32 out of 32 participants earned at least one industry certification.
- ✓ 32 out of 32 participants achieved perfect attendance.
- ✓ 32 out of 32 participants attended a college tour, broadening their horizons for future educational endeavors.
- ✓ 32 out of 32 participants opened their own bank accounts, enhancing their financial literacy and responsibility.
- ✓ 32 out of 32 participants demonstrated an understanding of the engineering design process, by dissembling and assembling a BMX bike.
- ✓ 32 out of 32 participants completed the camp successfully and received a $1,040 stipend, deposited into their newly opened bank accounts.