



Welcome to AeroStar News!

Aerospace: Countdown to NOW!



Dear AeroStar Family and Friends,

If you haven't watched "Countdown: Inspiration4 Mission to Space" on Netflix, I wholeheartedly encourage you to watch all five episodes today. Get ready to be inspired and enlightened, because the future of space travel is here and now! This awe-inspiring documentary shows us the blueprint to the new space race to Mars and beyond: AEROSPACE FOR ALL.

Elon Musk, SpaceX Founder, believes that humanity's destiny is interplanetary and that space flight must be available to all of us, not just professional astronauts. Toward that end, on September 15, 2021, four civilians—two women and two men—boarded the Dragon capsule at the Kennedy Space Center in Florida. At

8:02pm EDT, they achieved liftoff and began a three-day journey into space as the first all-civilian crew in aerospace history. The documentary tracks their journey, from training to liftoff to splashdown in the Atlantic Ocean.

Crew Dragon reached an orbital altitude of 364 miles above the earth, 100 miles higher than the International Space Station! They circled the globe at 17,500 miles per hour, completing one orbit every 90 minutes.

Dr. Sian Proctor

Inspiration4 was guided by four mission pillars, each represented by a member of the crew:

- Leadership: Jared Isaacman, Mission Commander
- Prosperity: Dr. Sian Proctor, Pilot
- Hope: Hayley Arceneaux, Medical Officer
- Generosity: Christopher Sembroski, Mission Specialist

Of the four astronauts, Dr. Proctor resonated the most with AeroStar's mission. The fourth African American woman astronaut in history and the first to pilot a spacecraft, Dr. Proctor is a pilot, educator, geoscientist, explorer, science communication specialist, and artist. The Inspiration4 flight was the achievement of a childhood dream. "I have dreamed about going to space my entire life," she said.

Born on the island of Guam, Dr. Proctor's passion was no doubt inspired by her father, Edward Langley Proctor Jr., who was responsible for tracking Apollo flights at a remote

station on Guam in the late 1960s. He was self-taught in advanced STEM subjects.

The one personal item Dr. Proctor took aboard the Dragon capsule was a letter signed by Neil Armstrong, the first man to walk on the moon. In the letter, Armstrong thanked her father for his help on the Apollo mission.

"I feel very fortunate to help advance women of color in space, and particularly African American women," said Dr. Proctor. "We have been overlooked, and we have not been supported as much as we could be, and I would like to see that change....We want to inspire people to imagine that yeah, it's me in this seat right now, but it can be you in the future."

AeroStar Is in the Seat!

I was inspired by Inspiration4's four mission pillars, but Team AeroStar has been guided by four propellers since we began our work with African American, Hispanic, and female students from underrepresented communities in 2008. Our training pillars are Expose, Educate, Empower, and Employ. These ideals propel our work with students as we train and prepare them to take their place in the air, in space.

Giving season has launched at AeroStar! Thanks to the generous support of Boeing, United Airlines, and our private donors, we are achieving our training mission. But the need to fund our programs is ongoing. This holiday, our goal is to raise \$100,000. Every dollar you donate to our mission will help us train worthy students who are passionate about pursuing careers in aviation and aerospace. **Please donate today!** When you donate to AeroStar, you're investing in the next generation of aviation and aerospace professionals!

Giving Wings to Dreams!

Tammera L. Holmes

President & CEO, AeroStar Consulting Corporation
Founder & CEO, AeroStar Avion Institute NFP

#wingstodreams

#BC100

Dr. Sian Proctor, Civilian Astronaut



Inspiration4 was the "Best ride of my life!"
Dr. Sian Proctor, Pilot of Crew Dragon (Prosperity pillar)

TV Ads: Black Girls in Orbit

AeroStar's telescope has spotted African American girls starring in television commercials with space themes. Like the Hubble Space Telescope, we'll stay focused on these new rising stars!

Lunchables TV Commercial, 'Astronaut'



2019 Audi e-tron TV Commercial, 'Launch'

[Video](#)



Trailblazer of the Month: Vernecelyn Allen



Vernecelyn Allen, 22 years old, graduated this year from Southern Illinois University Carbondale with an aviation management and aviation flight double major. Not only is she a licensed pilot, Allen recently earned her flight instructor's certification. Allen attended SIU on a four-year Chancellor's Scholarship, which covered tuition, fees, and housing. For more on her awe-inspiring story, click [here](#).

United Airlines' Girls In Aviation Day



On September 25th, United Airlines welcomed AeroStar students to O'Hare International Airport for Girls in Aviation Day. Sixteen girls enjoyed a fun day of activities and learning all about United's behind-the-scenes operation at its state-of-the-art facilities at O'Hare. Students were introduced to all the functions that make United's huge enterprise run smoothly, including air traffic control, flight operations, and aircraft maintenance.



Meet AeroStar Instructor, Ryan McBride

Ryan McBride teaches grades 5–12 on the AeroVerse E-Learning Academy and at Activity Days at Olive-Harvey College. Ryan is a pilot and design leader at **Boeing** with more than a decade of experience designing tools that make aviation safer, more cost-effective, and more enjoyable. Ryan received his Private Pilot license from The University of North Dakota. He also holds a B.S. in Media & Communication Technology from Michigan State University. In his free time, he is passionate about running, the outdoors, progressive social causes, and theoretical cosmology. Fun fact: When he was younger, Ryan competed at the USA Junior Olympics in Men's Volleyball. You can learn more about Ryan from a recent [interview he did here](#).



Fellowship Available!



Legacy Leaders is inviting youth and adults 19–27 to apply for a leadership fellowship. Twenty-five awardees will participate in high-level leadership training, experiential learning, and entrepreneurship opportunities. Young adults involved in the program will build skills, make connections, and develop their own unique brand as a well-rounded leader. Apply [here](#).

Register for Fall Programs (Click [HERE](#) to register today!)



Are you serious about pursuing an aviation career? Want to improve your STEM knowledge? Registration for the Fall term at AeroStar is open, so sign up for classes today! Safety protocols permitting, our Fall program will have both online and in-person sessions.

Aviation grades 9–12, subscribe [HERE](#).

Aviation grades 5–8, subscribe [HERE](#).

AeroSparks grades K–4, subscribe [HERE](#).



REGISTER TODAY

FALL 2021 PROGRAMS

AeroSparks In-Person:
K - 4th Grade
(1 Saturday a Month,
Oct. - Dec.)

Hybrid Aviation Program:
5th - 8th Grade
(10 Week Hybrid Program w/ Courses
Online & 3 In-Person Activity Days)

Hybrid Aviation Program:
9th - 12th Grade
(10 Week Hybrid Program w/ Courses
Online & 4 In-Person Activity Days)

\$150 - High School
\$100 - Middle School
\$25 - Elementary School

FINANCIAL ASSISTANCE AVAILABLE

What We Offer:

- Live Instruction
- Field Trips
- Hands-On Activities
- Access to Flight Simulators
- Industry Expert Instructors
- College & Career Readiness Mentoring
- & More!

**COURSES
BEGIN 10/4**

ENROLL TODAY!

**REGISTER AT
WWW.AAIAEROVERSE.COM**

Activity Days At Olive-Harvey!

ALL students (K-12) are invited to attend our weekly Activity Days held Saturdays at Olive-Harvey College (10001 S. Woodlawn Ave.). Meet like-minded peers who are serious about education and their future careers, and have fun in the process! K-4 sessions are 9:40am to noon; grades 5-12 are 12:40-3:00pm. (Register onsite at Olive-Harvey!) For more information, contact us at programs@avioninstitute.org.

The safety of students is our #1 priority, and we will continue to monitor the COVID-19 pandemic and will alert you to any changes to our Fall calendar.



**Aviation Maintenance Class for High School
Juniors and Seniors**



ATTENTION: CLASS OF 2023

Get ahead by earning college credit for **FREE** through City Colleges.

What Are the Benefits?

- You can earn college credit while still in high school, without paying college tuition. This means you save both time and money on the cost of a college degree.
- Free Books, Free Classes at City Colleges, and Free Transportation while in high school. You can make over \$50,000 a year after high school graduation.

Qualifications for Aviation Maintenance:

- Must have a 2.5 GPA; be a HS Junior; 90% Attendance rate
- Self-motivated (self-starter)

Responsibilities of Aviation Maintenance:

- Accomplishes aircraft lubrications and cleaning aircraft structures and components
- Opening aircraft access panels for inspection and or maintenance
- Applying corrosion preventative compound to aircraft structures
- Closing aircraft access panels areas following maintenance inspection after receiving the appropriate clearance to close per AAR and customer procedures.

How to Enroll:

STEP 1. Apply to www.ccc.edu/apply

Select: Pursue a limited amount of courses as a visiting student, personal interest, or as a dual enrollment/credit student.

STEP 2. Contact Holly Washington (Thrash), M.ED. at 773.291.6478 or hthrash@ccc.edu



APPLY TODAY!
ccc.edu/earlycollege

AVIATION MAINTENANCE PATHWAY

*Basic Certificate
Aviation Maintenance*

4 COURSES | 20 CREDITS

The program will meet in-person with scheduled remote days and field trips

AVIATION 101 • T/R
January 18, 2022

Lec: 3:00pm-4:10pm

Lab: 4:11pm-7:05pm

SPRING '22

- Math and General Physics
- Tools, Surfaces, and Corrosion

FALL '22

- Maintenance, Operations, and Records

SPRING '23

- Basic Electricity

**JOB OUTLOOK
IN AVIATION
MAINTENANCE**

Scan the QR code
to learn more



Donate Today!

One person *can* make a difference. Your generosity will help the AeroStar Avion Institute train and prepare students—K-12, college, and beyond—to pursue the aviation and aerospace careers of their dreams!

Please donate!

We're fired up about our mission to train and employ youth in this exciting industry, and we need your help more than ever before. To give, click **HERE**. Your donation is tax deductible, and 100% of your gift goes toward training the next generation of aviation and aerospace professionals.

Invest in the passion ... the mission ... DONATE NOW!

Book Teaches Kids to Fly Through Fear

What if you were afraid to fly? Authors Kenyatta Scott and Tamera L. Holmes join forces to show girls and boys how to face their fears!



Tamera L. Holmes Teaches Violet How to Fly Through Fear!

Follow along as ***Violet Takes Flight*** for the first time! Daddy teaches her and her brother Derek the true meaning of "doing it afraid." Follow along as Pilot Holmes makes her literary debut as Violet's flight teacher!

30% of all book sales support AeroStar Avion Institute, NFP, a female, minority owned NFP that teaches underrepresented youth in underserved neighborhoods about aviation STEM careers.

Buy your copy of ***Violet Takes Flight*** [HERE](#) today!

#thevioletbookseries
#wingstodreams

ON THE RADAR

President Joe Biden proclaimed October 11, 2021, as Indigenous People's Day. AeroStar celebrates the contributions Native American women and men, past and present, have made to aviation and aerospace.



In 1921, Bessie Coleman was the first African American and Native American woman to receive a pilot's license. Coleman's grandfather was a member of the Cherokee Nation.



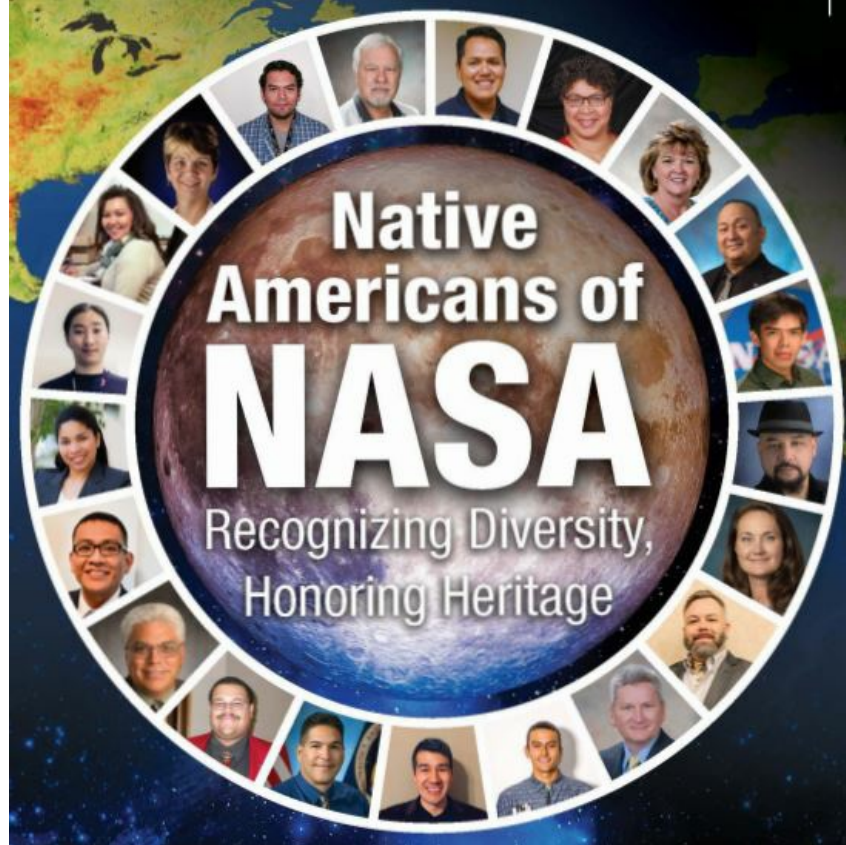
Mary Riddle was the second Native American woman to become a pilot. A member of the Clatsop and Quinault Nations in Washington and Oregon, Riddle was a member of the Associated Women of Boeing Field. She served as a maintenance advisor and aircraft inspector during World War II.



Olga "Millie" Rexroat was a pilot and the only Native American woman to work in the Women Airforce Service Pilots (WASP) during World War II. She was a member of the Oglala Sioux Nation.



When astronaut John Herrington made his voyage to space aboard Space Shuttle Endeavour's STS-113 mission, he became the first Native American in space. An enrolled member of the Chickasaw Nation, Herrington carried its flag on his 13-day journey.



Source

CREDITS



BOEING

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