



# THE CLIME



## *Fellow Ecopreneurs and Aircraft Enthusiasts,*

Our two-year anniversary is imminent and we have been growing and climbing. We recently kicked off our first ever Semper STEMternship with four bright interns. We are also preparing to launch a new "Careers" page on our website, featuring a tool that will provide valuable insights for transitioning service members and civilian recruiters. Semper Sky is actively engaged in meaningful partnerships and initiatives. We are working closely with Virginia's Small Business Development Center and we have a corporate membership with the American Institute of Aeronautics and Astronautics (AIAA). Our involvement in these initiatives helps build our credibility and visibility as we move closer to obtaining our 8(a) status.

Semper Sky had a remarkable experience at the 2023 American Institute of Aeronautics and Astronautics (AIAA) Aviation Forum in picturesque San Diego, CA.

It was an honor to be included in a gathering of titans and to share the stage with Boeing, NASA, Lockheed Martin Corporation, Rolls-Royce, Advanced Test Equipment Corp, General Atomics Aeronautical Systems, Inc., and several other exceptional exhibitors. Co-located with AIAA Aviation Forum was EATS @ Aviation. Our involvement with the Electric Aircraft Technologies Symposium was an important step towards realizing our mission of promoting energy resilience through aerospace decarbonization. I am excited about our inclusion in these vibrant communities and the potential it holds for Semper Sky.

In personal news, I am grateful to report that in May, I was selected for promotion to the rank of Major in the USMC Reserves. Stay tuned as we continue to soar through the skies, breaking barriers and shaping the future of aviation!

Keep Climbing,

*Ferguson "Juice" Dale*

## CLIMING WITH SEMPER SKY: AN INSIDE LOOK

We are excited to announce our seminal partnership with Hutip Productions, a well-run production company based in 29 Palms, California. Semper Sky and Hutip have joined forces to create a captivating documentary, offering a behind-the-scenes look at Semper Sky. This is not just any documentary. It's a story of dreams, aspirations, and unwavering dedication. It's a story of the interns that form the backbone of Semper Sky.

Hutip Productions has been tirelessly capturing the essence of Semper Sky, having recorded over 12 hours of exclusive footage. This footage is slated to be edited into two distinct deliverables. First, there will be a 60-second commercial, meticulously crafted to appeal to venture capitalists. The commercial—a sizzle reel serving as a documentary preview—will underscore Semper Sky's value and uniqueness while providing a glimpse into what makes Semper Sky investment worthy.

The second deliverable will be a 45-60 minute documentary. Imagine the drama, passion, and excitement of "The Last Dance," which highlighted the Chicago Bulls, but this time, it's about the trailblazers at Semper Sky. This documentary will shine a spotlight on each intern, highlighting their journeys, their triumphs, and the invaluable contributions they bring to the table.

This incredible collaboration will be an opportunity to see Semper Sky like never before - unfiltered, unadulterated, and unmatched. We will be sure to share release dates and watch options. Don't miss out.



# SEMPER SKY SOARS AT THE 2023 AIAA AVIATION FORUM



From June 14-16, Semper Sky participated in the 2023 AIAA/IEEE Aviation Forum and Electric Aircraft Technologies Symposium (EATS) at the Manchester Grand Hyatt Hotel in San Diego. The event brought together leading professionals and young minds in the sustainable aviation and aerospace industries to discuss innovations, ideas, and goals for future aircraft. It included keynote speakers and several hundred technical sessions.

Juice, an EATS committee member, shared Semper Sky's primary focus. He conveyed Semper Sky's passion for infrastructure and discussed our plans to offer electric aircraft recharging, hydrogen fuel cell replenishment, and maintenance services. Juice also shared our vision for an aerospace laboratory that breaks new ground in self-energizing and electromagnetic spectrum deconfliction. In addition to the in-person booth, Semper Sky set up a virtual exhibit booth on the AVIATION virtual platform.

Fiona Clarke, Abby Harwick, and Tyler Vafa—three of our four interns—also attended the symposium, representing Semper Sky in their specially designed uniforms. The interns documented their experiences as they participated in panel discussions, Q&A sessions, informationals, and more. When questioned about Semper Sky during the exhibitions, all members of Semper Sky described the company as a “glorified filling station, but with electric aircraft recharging services and hydrogen fuel cell replenishment services as well as basic hydrogen and electric aircraft maintenance.”

While attending the symposium, Semper Sky also upheld its unique “winging” tradition and pinned the interns in a special ceremony. All attendees from Semper Sky donned metal wings, symbolizing their commitment and dedication to the aerospace industry.

The AIAA Aviation Forum 2023 was a landmark event that bridged the gap between today's achievements and tomorrow's dreams in aviation.

## Sustainable Development Goals: Infrastructure



Juice spoke with some of the foremost experts in electric and hydrogen propulsion systems and was able to get a better understanding of customer needs. Juice also offered a glimpse into Semper Sky's Sustainable Development Goals for infrastructure. Read his insight below.

With sustainable energy in aerospace, we have all these great companies coming out with hydrogen-based aircraft and electric based aircraft. But one of the things that I'm not seeing a whole lot of is infrastructure. When it comes to infrastructure, you have a couple of ways you can go. I think where to go with this is you have your electric aircraft recharge and then you have your hydrogen aircraft refuel. So if Semper Sky focuses on those things as well as maintenance, I think we're going to have a really good chance of servicing our customers in a business-to-business relationship and then turning around and doing a business-to-business-to-consumer relationship. By doing that maintenance onsite, we are keeping folks from having to travel far to get services. Customers can go anywhere they want, they can get recharge services, and they can be on their merry way.



## FROM JUICE'S JOURNAL...

AIAA put together an incredible event under the theme "Revolutionary Leaps Toward A New Age of Aviation." and it lived up to its name. Though we joined AIAA as a corporate member in May 2023, just a month before the forum, Semper Sky still made waves!

John Steffen, Semper Sky's business advisor and I helped Semper Sky stand out among 50 exhibitors at the event. We set up a booth featuring a striking 13.5 foot backdrop and offered custom made "cookie shots" branded with the logo. Semper Sky garnered a lot of attention and we maintained it with our captivating and informative discussions.

Reciprocally, we received just as much as we gave. We immersed ourselves in discussions with industry trailblazers who shared their invaluable insights on the horizon of aviation. With over 500 technical sessions, including 39 devoted to electric aircraft, my brain is still buzzing from all the information absorbed. Some nuggets of wisdom I gathered are as follows:

### **Sustainable Aviation Infrastructure**

*Regional airlines' demand for sustainable energy aircraft is apparent. It's an exciting time with a surge in innovations and patents.*

### **Standardization**

*We need to learn from the electric vehicle industry's fragmented approach and work towards standardizing hydrogen and electric recharging connections for the benefit of consumers and smoother infrastructure.*

### **Addressing EMI**

*Electromagnetic Interference (EMI) is a growing concern, particularly with unmanned systems. Our aerospace lab at Semper Sky is primed to take on the challenge and conduct pivotal testing to mitigate this issue.*

I want to send a heartfelt thank you to all participants and organizers for making this event an unparalleled success.



## ICONIC ACCOMPLISHMENT



In March, we submitted an original design to the Electric Aircraft Technology Symposium logo design contest. After reviewing submissions, EATS' Steering committee chose Semper Sky's logo as the theme for the event. As a prize, Semper Sky received one conference pass to EATS.



# introducing OUR INTERNS

One of Semper Sky's strategic level focus areas for the first five years is talent management. This year, our commitment to talent management is reflected in our summer STEMternship program.

On June 5th, four outstanding students with varying interests in STEM, began hybrid or remote internships with Semper Sky. To officially welcome the interns, Semper Sky hosted a virtual Summer STEMternship kickoff on June 7th, featuring guest speaker Erika Armstrong. Erika, an esteemed aviation professional and author, shared her insights on aviation careers and hosted a Q&A session.

Under the guidance of internship coordinator, Dr. Aaron Miller, our intern group is participating in weekly virtual classes and documenting their experiences during the 8-week program. Three of our interns recently attended the Electric Aircraft Technologies Symposium (EATS) in San Diego. And the group will participate in additional exclusive events. Among several other learning opportunities, they will receive comprehensive training on sustainable aviation from Dr. Marty Bradley of the University of Southern California. Our interns' involvement in high-profile events underscores our commitment to nurturing future talent in the aerospace industry.

Our interns have soft skills and a desire to expand their knowledge beyond their respective majors. It's a privilege to have such a cognitively diverse group of summer interns at Semper Sky. And we are pleased to introduce them.



**Fiona Clarke**

Howard University  
Sophomore

### a little about me



I play the trumpet in Showtime, the marching band at Howard University. I was the drum major of my high school marching band.

I work at an assisted senior living home, doing fun activities with residents.



I easily pick up small hobbies such as knitting, crafting, skating, chess, and much more.

**As a Semper Sky STEMtern, I hope to...**  
gain more knowledge about the aviation industry. I've already gotten the opportunity to be face to face with people in the community. And seeing so many intelligent and accomplished people in one room made me feel right at home. I hope that I can use this internship to open doors for my future and one day be an intelligent and accomplished woman that other young engineers can look up to.

**I chose STEM and engineering because...**  
I've been drawn to the STEM field since my 5th grade year. I was put in advanced math and got the opportunity to take middle school level math. Then when I got to middle school, my school placed me in a STEAM program. We completed high school level math and science and a class where they exposed us to each different engineering field. Throughout high school, I enrolled in advanced classes and had a specific interest in math and science.



**Abby Harwick**

Pamlico County High School  
2023 Graduate

### a little about me



I currently hold a private pilot's license, which I earned the summer after my junior year in high school.

I play the clarinet.



I'm from a small town. There are only two stop lights in my entire hometown.

**My Semper Sky STEMternship is beneficial because...**  
my career goal is to become a commercial pilot. Semper Sky's internship can give me major insight into what the future of aerospace holds. Bringing this knowledge into my flights as aircraft continue to adapt and change could give me a head start into understanding systems and possibly failures.

**I'm passionate about aerospace because...**  
I've always been looking up towards the sky. Birds and the occasional crop duster have always kept me transfixed. Along with that, my mother always made a point to keep me and my sister traveling. When we traveled in planes, I would marvel at the cockpit and the pilots as we boarded. When I got in the cockpit for the first time, the realization hit me that I, too, could be part of aerospace as a pilot. Since then, I've held a great passion in learning as much as I can about aviation and aerospace.

# introducing OUR

# INTERNS

continued



**Andrea Morris**

Howard University  
Junior

### a little about me



I was 16 years old when I graduated high school.

I love green. It's my favorite color.



I have three pet goldfish.

### As a Semper Sky STEMtern, I hope to...

I hope to gain insight on engineering practices and daily procedures. I also hope to better understand how sustainability is factored into engineering. I have been thinking about changing my major from civil engineering to aerospace engineering. I feel like this internship could really help me figure out my path for later in life.

### My interest in engineering increased when...

I participated in a robotics club in middle school. I was intrigued by the way we built the robots and how they came to be. I became motivated and passionate about engineering as a whole.



**Tyler Vafa**

University of Maryland, BC  
Senior

### a little about me



I am studying to receive my B.S. in Mechanical Engineering.

I enjoy taking things apart and putting them back together to see how they work.



I can solve a Rubik's Cube in under a minute.

### As a Semper Sky Intern, I hope to...

I hope to become more familiar with the aerospace industry, as I have no formal experience in aerospace. I would also like to learn about different ways to cut down on carbon emissions in the atmosphere. I think the STEMternship will help me become aware of different ways to produce energy that will combat global warming.

### My interest in STEM is...

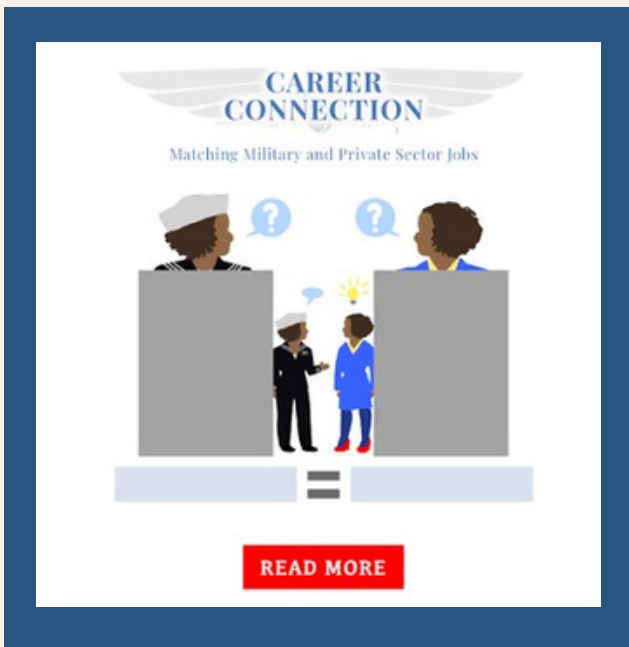
I am specifically interested in engineering because I am a very logic-forward person. The STEM courses I took throughout my high school career were my best and most stimulating classes. Math and physics have always been more interesting to me than other courses. And I have always liked fixing things. So naturally I hovered toward a Mechanical Engineering degree.



Juice and Colonel Henry Hurt, President of the National Naval Officers Association's Quantico Chapter, congratulated Cadet Campbell on his scholarship win.

## Honoring Excellence

On Thursday, June 1, Captain Ferguson "Juice" Dale attended Senior Awards Night for Fork Military Academy in Fork Union, VA. While there, Juice, chair of the Quantico National Naval Officers Association's Scholarship Committee, presented the Captain Jesse L. Melton Scholarship Award of \$5000. The scholarship recipient, Cadet Charles D. Campbell, II has been accepted to The Citadel, The Military College of South Carolina in Charleston, SC.



## Career Connection

Military occupations often translate into private-sector jobs. However, it can be difficult for recruiters, employers, and job-seekers to make the connection. Consequently, transitioning service members sometimes have trouble finding employment outside of the service. The challenge lies in understanding military skills and experiences and how they translate into civilian careers.

Imagine a Venn diagram with a military occupation on one side and a similar private-sector job on the other. The two career positions might differ in title, but a review of the required skill sets would show a cross-section filled with similarities.

Inspired by Juice's desire to help bridge the gap, we are developing a tool that would operate similarly to a Venn diagram, but focusing more on highlighting comparable capabilities.

Our "Career Connection" tool will enable recruiters and transitioning service members to better identify and match government careers to military skill sets. For the tool, Artist Tiffany Petit has created a graphic that illustrates how specific military occupations translate into private-sector jobs. Our initiative will result in an increased understanding of the warfighters world and will tap into pools of a skilled workforce.

## Exclusive Rights



After a year-long process, the US Copyright Office has approved our registration of the words "Semper Sky."

# Semper Sky TIMELINE

As we approach our two-year anniversary in July, we are reflecting on Semper Sky's growth and milestones. Here are some of our major accomplishments in the past 12 months.

