



*Cessna Grand Caravan retrofitted  
for autonomous computer control.  
Photo courtesy of Xwing and AOPA*



## The Gift of Flight

This holiday season, Fly Legacy Aviation has expanded its retail shop with new arrivals from Sporty's Pilot Shop, including t-shirts, socks, and other gifts that would be perfect for your fellow aviators. These new arrivals are expected to be in stock by the beginning of December, so be sure to check them out!

In addition to merchandise, Fly Legacy Aviation is continuously offering flight packages for Introductory Flights, Discovery Flights, and our Sky Ride Tours. What could be more perfect than offering others to experience the beauty of flying?

For more information, to order directly, and to see gift certificate options, please visit:  
**[flylegacyaviation.com/store](http://flylegacyaviation.com/store)**



## Pilots, It's Cold Outside

Winter operations are now upon us, and so is preheating the airplanes! Preheating aircraft in low temperatures is essential for the health and safety of both the plane and the pilots, since it encourages essentials to flight, such as good battery condition. All students, instructors and renters should be aware of the preheating protocol, especially for first-morning flights. If the temperature is 40 degrees or colder the night before into the morning, please ensure that the preheating and priming processes are correctly done. Our maintenance department will make an effort to store planes overnight if there is room, but please be aware that directions are on the preheaters themselves to follow as permitted. Notify the front desk or an instructor if there are any further questions regarding the preheating process.

# The Future of Pilots: Changed, Not Gone

As technology continues to advance, the future of aviation and pilots has been repeatedly put into question. The reality of automated aviation has caused worry among aspiring pilots everywhere, but according to NASA and the AOPA, we have nothing to fear. Although the usage of automatic technology is eventually inevitable, it will not impact whether pilots are needed or not, but instead, how they are needed.

"After decades of improvement, the state of the aviation automation art now includes computers that can out-fly humans in simulated dogfights and land general aviation aircraft on their own in a pinch. However, the most advanced of these still cannot match every human capability, and pilot jobs are most likely safe for decades to come, if not forever."

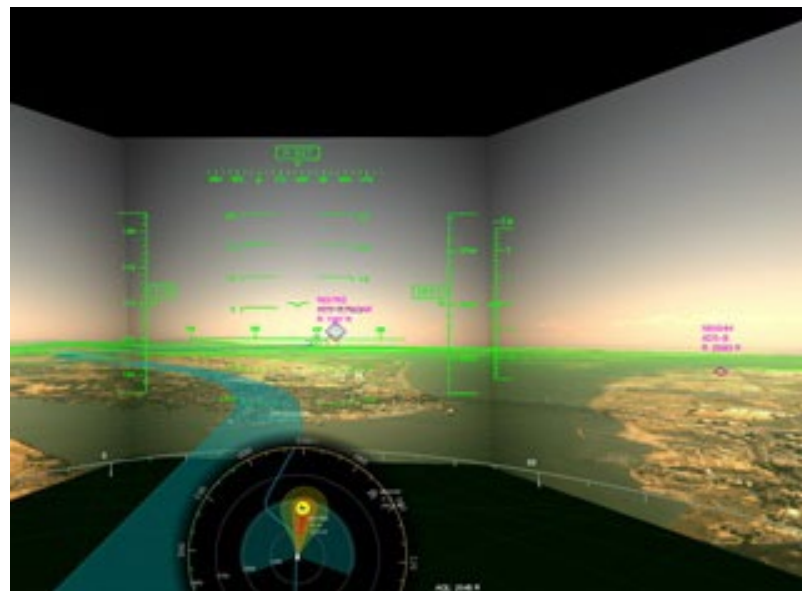
Kenneth Goodrich, deputy manager of NASA's Advanced Air Mobility project, reflected back to Capt. Chelsey "Sully" Sullenberger and Airways Flight 1549's landing in the Hudson River. Goodrich points out that an autopilot can navigate the tactical components of flight, but not the strategic, which is more-so important in terms of emergencies and other unknowns. Essentially, no computer has been programmed successfully in a way to reliably handle rare events, which in itself secures pilots as essential for quite a while.

Not only this, but modern day technology still relies on human intervention, so it is more likely that there will be a change in pilot responsibilities, versus not having pilots. Teamwork and trust in aviation are still fundamentals. With commercial aviation

specifically, the passengers are the central element to not just pilots, but airlines as a whole. Establishing the trust and the ability to navigate not only the skies, but also interaction and needs, are jobs only a true, human pilot could do. Yes, certain pilot positions could fade away with the rise of new technology, but this will only lead to new positions opening up in response.

"Meanwhile, if you are starting or in the middle of your flying career, take heart, and continue to follow your passion, Goodrich advises. The job will probably change, and you may have a hard time making small talk with your artificial co-pilot in a few years, but aircraft will almost certainly have at least one seat for you, with flight controls, for decades to come."

Article basis and quotations credited to Jim Moore of AOPA. Read more at: [aopa.org/news-and-media/all-news/2020/november/18/will-computers-ever-fly-alone](https://aopa.org/news-and-media/all-news/2020/november/18/will-computers-ever-fly-alone)



# Monthly Graduates



## Dogan Can Dogan

Commercial Pilots License  
November 4, 2020  
Instructor: James Zararis



## Adam Gabriel

Instrument Rating  
November 5, 2020  
Instructor: Tyler Mealy



## Alex Collicott

Certified Flight Instructor,  
Instrument Rating  
November 29, 2020  
Instructor: Declan Ferguson

## Laurel Davis

Multi Engine Instructor.  
Instructor: James Zararis

*"I recently did my Multi Engine Instructor training there (Fly Legacy). The staff was super friendly, and Mr. Zararis (my instructor) was knowledgeable and succeeded in helping me pass the checkride. I thoroughly enjoyed training there and appreciated the way they followed COVID-19 guidelines"*



## First Solos



## Will Scott

November 6, 2020  
Instructor: James Kim



## Claudia Lezcano

November 20, 2020  
Instructor: Diego Arrieta



## Garrett VanDeMark

November 25, 2020  
Instructor: Alex Collicott



## Peter Macartney

November 27, 2020  
Instructor: James Kim





# National Aviation History Month

The month of November is National Aviation History Month, dedicated to exploring, commemorating and appreciating the historic accomplishments of flight through time, from development, all the way to space.

"The modern age of powered flight began in 1903 when Orville Wright made the first sustained, powered flight on December 17 in a plane he and his brother Wilbur built. This twelve-second flight led to the development of the first practical airplane in 1905 and launched worldwide efforts to build better flying machines." - Federal Aviation Administration

Although the Wright brothers are most known for launching aviation, the urge to fly was seen long before, and even actually inspired the Wrights to strive higher. From gliders to hot air balloons, notable figures such as Otto Lilienthal assisted in creating what we know as aviation today. Other historical figures that are not as frequently mentioned include Geraldine Mock, who was the first woman to successfully circumnavigate the globe, and the Tuskegee Airmen, who launched integrating in the U.S. Airforce.

**Check out some of the key events that helped shape aviation, and test your knowledge!**

- 1783** First Hot-Air Balloon Flight
- 1852** First Powered Flight
- 1884** First Roundtrip Flight
- 1903** The Wright Brothers and the First Flight
- 1911** First U.S. Woman Pilot
- 1914** World's First Commercial Airline
- 1927** Charles Lindbergh and the First Solo Transatlantic Flight
- 1947** Breaking of the Sound Barrier
- 1958** First Domestic Jet Passenger Service
- 1961** The First Man in Space
- 1969** Apollo 11: First Men on the Moon
- 1971** Salyut 1: The First Space Station
- 1981** Space Shuttle Exploration
- 1993** First Woman Co-pilot on Commercial Supersonic Plane
- 2005** First Non-stop Solo Flight Around the World Without Refueling
- 2017** First All-Female Flight Crew
- 2018** First Space Mission Where U.S. Astronauts Were Women
- 2019** First All-Female Spacewalk

*Timeline credited to Vaughn College*



**215-969-0311**

9800 Ashton Road, Philadelphia, PA 19114  
[www.flylegacyaviation.com](http://www.flylegacyaviation.com)



**Fly Legacy**