



Top 5 Drone Myths and Misconceptions

2024 PEPS Conference

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Top 5 Drone Myths and Misconceptions





“THE DRONE PRO”



Michael Hill

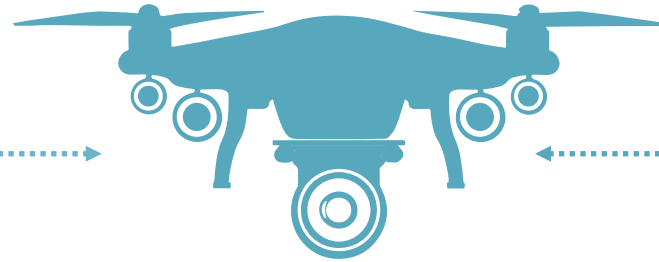
Uncrewed Aerospace

Founder/CEO



- **CERTIFIED UAS PILOT- (US, CANADA, UNITED KINGDOM)**
- **7800+ UAS MISSIONS FLOWN**
- **6000+ CERTIFIED UAS FLIGHT HOURS**
- **FEMA CERTIFIED- SEARCH AND RESCUE UAS PILOT**
- **MASTER RATED- UAS “DRONE” FLIGHT INSTRUCTOR**
- **75+ FEMA, OSHA, NIST AND UAS INDUSTRY CERTIFICATIONS**
- **2021 TECH TITANS “TECHNOLOGY ADVOCATE” AWARD WINNER**
- **DIRECTOR OF UNMANNED OPERATIONS- TXWG CIVIL AIR PATROL**
- **UAS FLIGHT INSTRUCTOR FOR PUBLIC SAFETY/FIRST RESPONDERS**
- **LEGISLATIVE CHAIRMAN- NORTH CENTRAL TEXAS- DRONE TASK FORCE**
- **TRAINING OFFICER- NORTH TEXAS PUBLIC SAFETY UNMANNED RESPONSE TEAM**
- **UAS CONSULTANT TO BUSINESS, LEGISLATORS, MUNICIPALITIES & PUBLIC SAFETY**

5 Drone Misconceptions



DRONES ARE TOYS

MY KID HAS ONE



DRONE DELIVERIES

I CAN ORDER MY FOOD



ANYONE CAN FLY A DRONE

OH, I CAN DO THAT



AIRSPACE RIGHTS

WHO OWNS THESE



JETSONS VS REALITY

CLOSER THAN YOU THINK

DRONES ARE TOYS



AERIAL CAMERAS

Drones can do more than just take pictures of your weekend getaway or awesome views of real estate



DRONES ARE AIRCRAFT

Drones are considered aircraft in the FAA's eyes and cannot be flown without certificates of pilot authorization and airworthiness



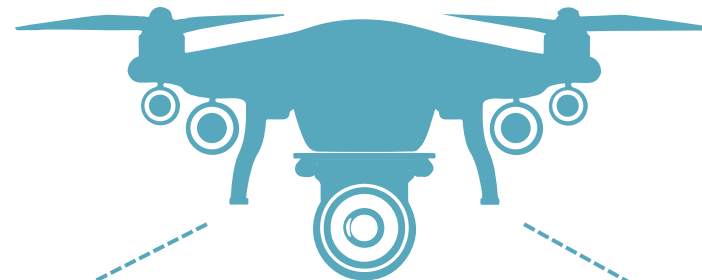
3D MAPPING / LAND SURVEYING

Drones collect data at vantage points that are not accessible to humans and used to create 3D maps, land surveys, photogrammetry, and topographic surveys



FIRE FIGHTING

Drones aid firefighting operations by providing an aerial view of the fire scene, which offers firefighters real-time information about the fire's progress



SEARCH AND RESCUE

Drones are used for search and rescue operations, aerial patrols and other roles that usually are served by crewed aircraft

DRONE DELIVERIES



5G



QUICKER DELIVERY TIMES

A quicker delivery time is one of the top reasons companies are trying to incorporate drones into their business models

REDUCED COSTS

The last mile of the package is the most expensive to a company, using drones will be able to cut down on fuel costs, types of equipment used, and much more

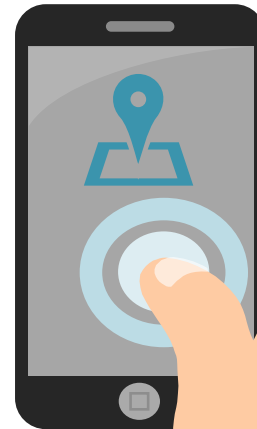


REDUCTION OF TRAFFIC

With the incorporation of drones, traffic that comes from delivering of goods will be cut down drastically. Some reports suggest that trucks cause 28% of the congestion on American roads

ECO-FRIENDLY

Batteries are used in all types of drones, making them much more economical as well as eco-friendly. This will contribute to making the air cleaner and better for humans, animals, and plants



ANYONE CAN FLY A DRONE



FAA REQUIREMENTS

The FAA classifies Drone pilots as either Recreational or Commercial

RECREATIONAL DRONE PILOT

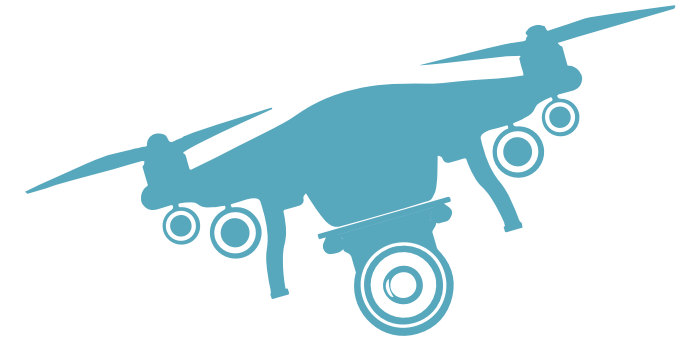
Using a drone to take photographs for your own personal use with no monetary gain would be considered recreational.

COMMERCIAL DRONE PILOT

Using a drone to take photographs and/or videos for compensation is considered a commercial operation. For this You must be at least 16 years old and pass an Aeronautical Knowledge Test—also known as the Part 107 test, to become a certified Remote Pilot

PRACTICE, PRACTICE, PRACTICE

Drone flying is fairly difficult, especially for a beginner with no practical background in flying anything remote-controlled. It is always best to know the basics first before actually flying a drone.



KNOW BEFORE YOU FLY

- **D**on't fly within 5 miles of an airport
- **R**emember to stay below 400' and at least 150' from buildings and people
- **O**bserve your drone at all times
- **N**ever fly near manned aircraft
- **E**njoy and fly responsibly



NATIONAL AIRSPACE



EXCLUSIVE SOVEREIGNTY

The United States government has controlling rights over the airspace of the United States from the ground upwards



NAVIGATIONAL AIRSPACE

Where Private Property Rights End
And Navigable Airspace Begins



THE NATIONAL AIRSPACE

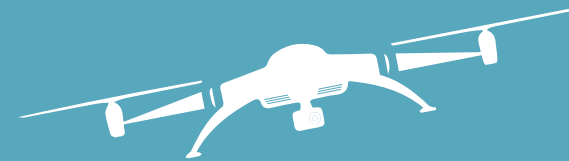
Incorporates different classifications of airspace. These are each determined by the complexity or density of the aircraft traffic within them



UNMANNED TRAFFIC MANAGEMENT

Just like traffic on the ground, UTM regulations govern aircraft traffic to promote a safer and more efficient national airspace

THE JETSONS VS REALITY



The Jetson Family

The dreams of a generation

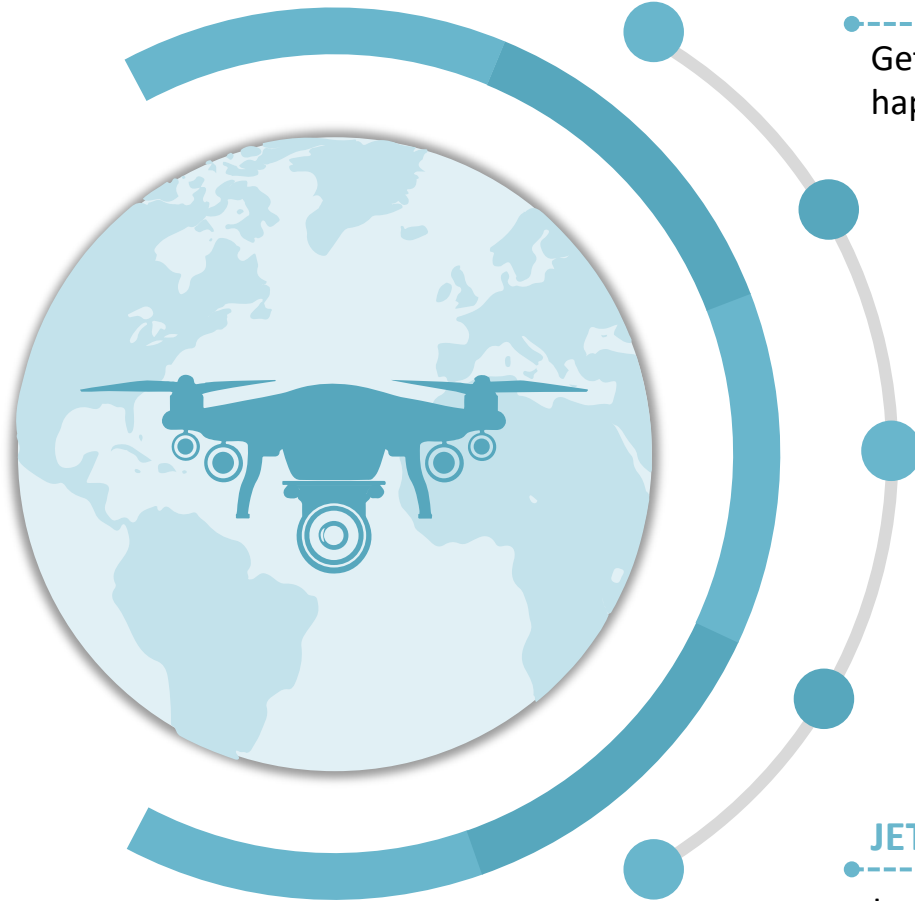


Jetson One

The reality of today



IN CLOSING



DRONES ARE TOYS

Getting a drone stuck in a tree isn't the worst thing that can happen. But it's definitely up there

DRONE DELIVERIES

Dreaming about a pizza delivery by drone. It's not a pie-in-the-sky idea any longer

ANYONE CAN FLY A DRONE

Sure, I can teach you how to fly a drone, But I think it would just go over your head

NATIONAL AIRSPACE

Urban Air Traffic is thicker than a cup of Espresso

JETSONS VS REALITY

I swear on catching a SpaceX Rocket, this dream is becoming reality



THANK YOU

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