

Joe Paneitz

- 18 year educator
- Founder and owner of Aha Education, LLC
- President of Aha Developers 501c3
- Founder of Iconic Drone Education
- 2020 R4 Texas Teacher of the Year
- Humble ISD Teacher of the Year
- Channelview ISD Teacher of the Year
- ATPE Humble Teacher of the Year
- Gulf Coast Educator Teacher of the Year
- Honor Medal Crossed Palms
- Finalist Civilian Congressional Medal of Honor
- All Earth Ecobot Challenge Lead Teacher and Program Director
- FAA FAAST Team Drone Pro
- Recent hire: Houston Community
 College Drone Educator
- Father, Husband, Dogs, Horse
- Eagle Scout, Vigil Honor



Purpose Purpose

The goal of today's presentation is to learn critical information about the drone industry and identify your resources.



AMIQUEDUCATION

In this meeting...

- The industry (58% growth rate across countless industry).
- Part 107 commercial drone pilot license (earning money).
- FAA minimum requirements to get your license.
- TRUST recreational certificate (flying for fun).
- Remote Identification (Mandatory for MOST DRONES BY September 16, 2023).
- Registering your drone (Recreational vs. Commercial).
- Aquiring instant/easy ATC (Air Traffic Control) permission to fly your drone.
- Flying over people and flying at night.
- Types of drones and their uses.
- How to access the education your organization.
- Breakouts: Education, Law Enforcement/First Resp, Industry, Individuals, etc..

Why drones..





Click Pick - Open on Seperate Tab



But wait, theres more..

Penalties related to flying a drone

Penalties related to drones can vary significantly depending on the country and its specific regulations. Drone regulations are primarily in place to ensure the safe operation of drones and to protect the privacy and security of individuals. Here are some common penalties and consequences associated with drone-related violations in many countries:

- 1. **Flying in Restricted Areas**: Operating a drone in areas where it's prohibited, such as near airports, military bases, government buildings, or critical infrastructure, can result in fines and legal action. Penalties can range from fines to imprisonment, depending on the severity of the violation.
- 2. Flying Beyond Line of Sight: In some countries, flying a drone beyond the pilot's visual line of sight without proper authorization can lead to fines and the confiscation of the drone.
- 3. **Flying Over People**: Flying a drone over people without the necessary permissions can result in fines and legal consequences if it poses a safety risk.
- 4. **Flying at Night:** Operating a drone at night may require special authorization in many places. Violating these rules can lead to fines and penalties.
- 5. **Failure to Register:** Many countries require drone owners to register their drones. Failure to do so may result in fines or restrictions on drone use.
- 6. **Privacy Violations:** Using a drone to invade someone's privacy, such as by capturing images or video on private property without consent, can lead to civil lawsuits, fines, or even criminal charges.
- 7. **Reckless Flying**: Reckless flying, which includes flying too close to people, animals, or buildings, can result in fines and legal consequences.
- 8. **Commercial Drone Operations:** Operating a drone for commercial purposes without the necessary licenses and permits can lead to fines and legal action.
- 9. **Licensing and Certification Violations:** Pilots may be required to obtain specific licenses or certifications to operate drones, especially for commercial or professional use. Operating without the proper credentials can lead to penalties.
- 10. **Interfering with Emergency Services:** Flying a drone near emergency situations (e.g., wildfires, search and rescue operations) can interfere with first responders and may result in significant penalties.
- 11. **Smuggling and Illicit Activities**: Using drones for illegal activities, such as smuggling contraband or drugs, can lead to severe criminal penalties, including imprisonment.
- 12. **Unauthorized Surveillance**: Unauthorized surveillance using drones, such as spying on individuals or sensitive facilities, can result in criminal charges and penalties.

It's essential to check the specific regulations in your country or region, as well as any local laws, to understand the penalties and consequences associated with drone operations. Keep in mind that drone regulations are continually evolving, so it's crucial to stay up-to-date with the latest rules and guidelines to ensure responsible and legal drone use.











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Is there a penalty for failing to register?

Failure to register an unmanned aircraft that is required to be registered may result in regulatory and criminal penalties. The FAA may assess civil penalties up to \$27,500. Criminal penalties include fines of up to \$250,000 and/or imprisonment for up to three years.

state

What Are the Potential Civil Consequences of Improper Drone Use in Texas?

Owners and tenants of private property can file lawsuits to recover civil penalties and attorney's fees from individuals who illegally use drones to make recordings. They can also file an action to stop an existing violation or prevent an imminent violation. Civil penalties of \$5,000 for all materials from a single recording episode, and \$10,000 for disclosure, display, distribution or other of all materials from a single recording episode apply. Additionally, if it is shown that the recording were disclosed, displayed or distributed with malice, the owner or tenant may recover actual damages.

state

GOVERNMENT CODE

TITLE 4. EXECUTIVE BRANCH

SUBTITLE B. LAW ENFORCEMENT AND PUBLIC PROTECTION

CHAPTER 423. USE OF UNMANNED AIRCRAFT

Click here for in depth research on drone laws/penalties.

Part 107 'Commercial' License

- 'Commercially' means flying for your job or any sort of compensation for flying your drone
- Need the Part 107
 - Pass the 107 test \$175
 - Study 20 hours
 - Read, speak, understand English
 - At least 16 in good physical/mental cond.

Trust Certificate

- Flying for fun (recreational)
- Not earning money
- Free online test
- Complete in less than an hour
- No age limits

Click to Earn Your Free TRUST Cert



Which License Do I Need



UNITED STATES OF AMERICA

XXXXXXXXXXXXXXXX

V ADDRESS XXXXXXXXXXXXXXX



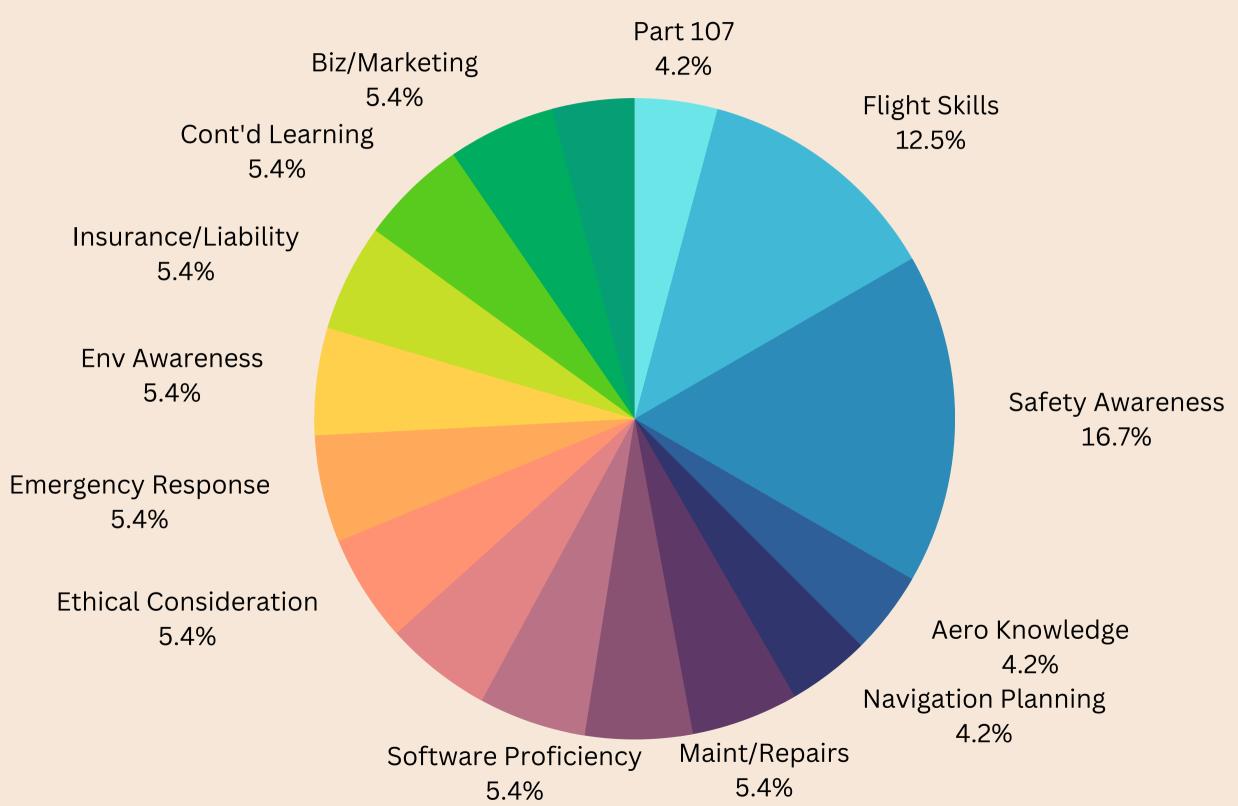
Part 107 is just the beginning



Did you know you can be an FAA certified drone pilot and have NEVER touched a drone in your life? Wow!!

These numbers are debatable, however flight practice and safety awareness are an ongoing absolutely essential. But, what about emergency response or planning.

Now you know the difference between certified and qualified. Huge difference. Now, you know how its possible median income for a drone pilot is



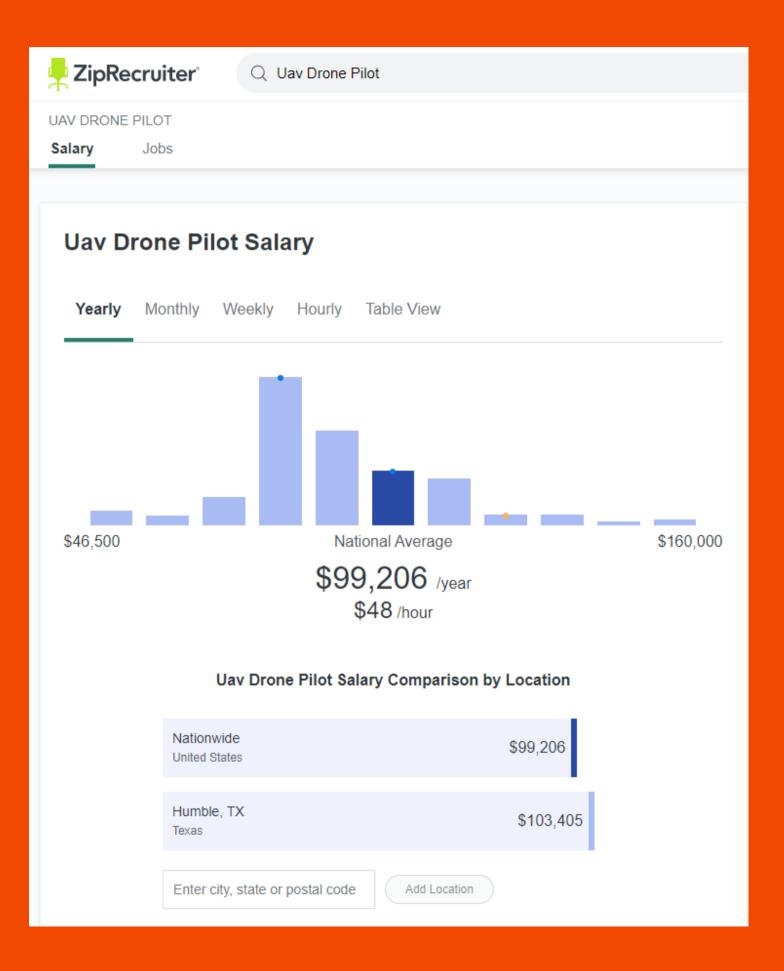
<u>\$99,000.</u>



Did you just say \$99k median? Prove it...



Click the pic to be re-routed to ZipRecruiters live site.





Click to Learn More About Remote ID





*September 16, 2023, ALL drones over .55 pounds must

- Have remote ID operating in the drone
- Have a remote ID module added to your drone
- Operate in a FRIA (FAA-Recognized Identification Areas

*If Part 107 (commercial) drone, ALL drones no matter size, must be Remote ID compliant by Sept 16, 2023

Click to Find a FRIA





REGISTER YOUR DRONE

FaaDroneZone-Access.FAA.gov

- Seperate registrations for:
 - Recreational Flight
 - Commercial Flight
- Tips:
 - Label with UAS number
 AND 'Reward if found' =
 JohnDoe@gmail.com







Getting ATC Approval to Fly a Drone aka..

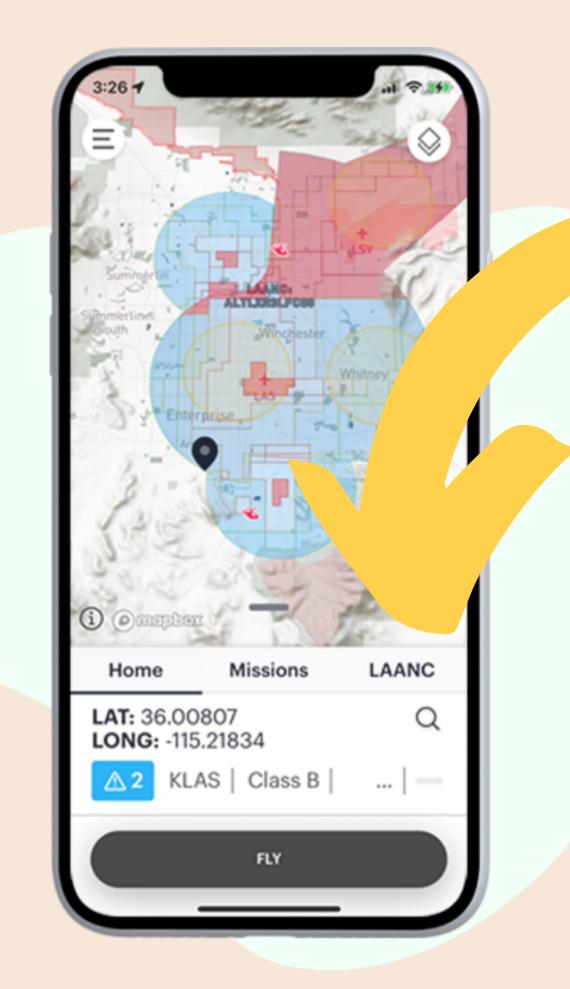
LAANC

Low Altitude Authorization and Notification Capabilities.. what a mouthful! What does this mean?

There is an app you should use before each time you fly to see if you need LAANC to fly. You might be in a controlled airspace that requires ATC approval, however ATC does not want you to call them or radio them. They want you to use the automatic approval app thats super easy.

Alert!!

Forgot to get LAANC, possibly another \$250,000 criminal, \$32,667 civil, and 3 years fed prison for each occurance.





Flying Over People



0 to 55 Pound Drones

- Category 1
 - .55 pounds or less
 - No exposed rotating parts
 - Propeller guards
 - If adding prop guards pushes your drone over .55 pounds, cant fly over people
- Category 2
 - Over .55 pounds w/ air worthiness certificate
 AND remote ID

Flying at Night



Short answer: "Yes" if:

• Add a 3 statute mile visible strobe to your drone



Which drone to buy? 4 Types of drones

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Single Rotor



Multi-Rotor



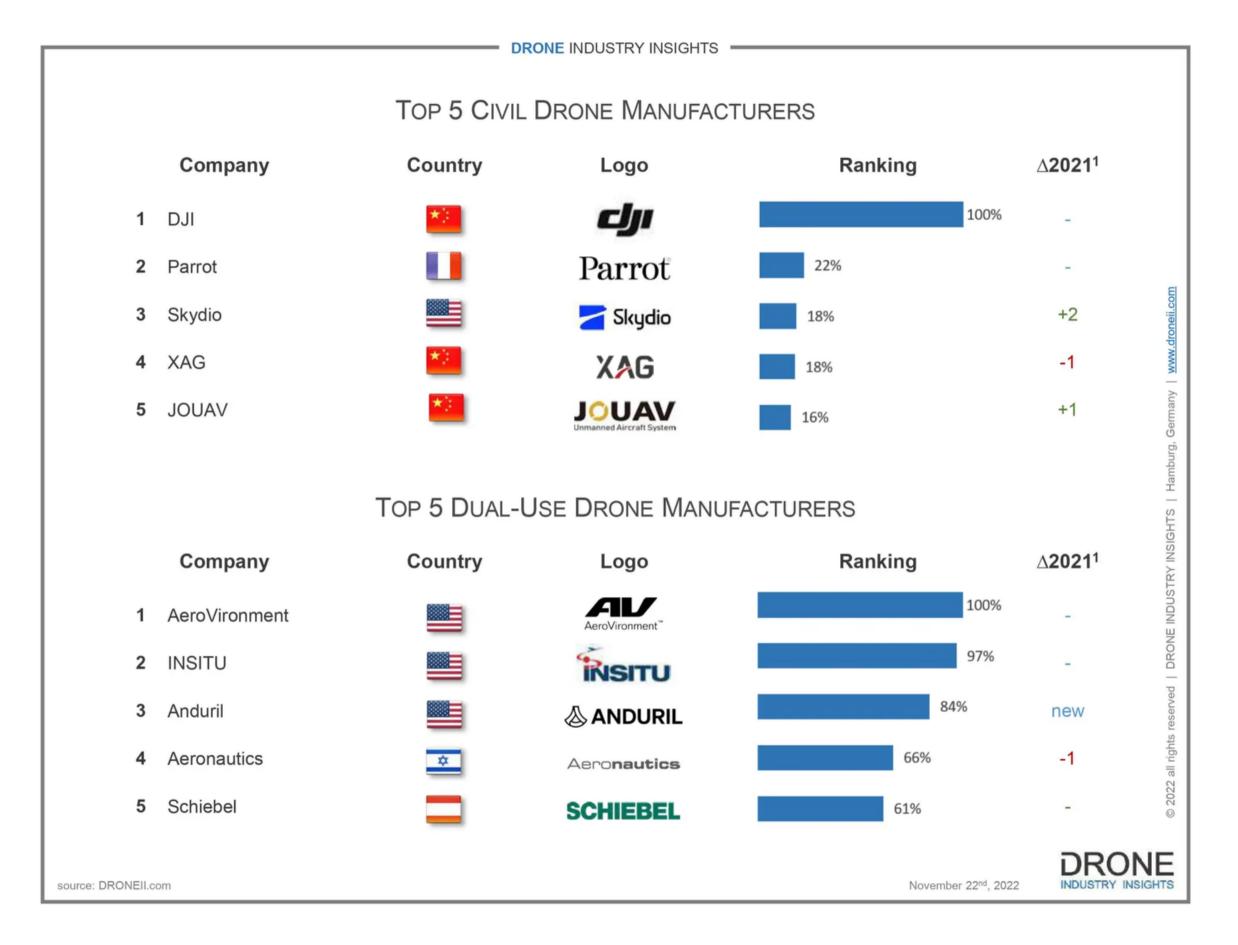
Fixed Wing



VTOL (Hybrid)



Who is the Mercedez of drones... DJI









Aha Education: Mavic 3



- 28x Zoom
- 360 safety sensors
- Battery life, camera, quiet, etc...



Autel Robotics Evo Lite+ Best for Long Flights



Autel Robotics Evo Nano+ Best 249g Drone Without Geofence



DJI Avata
Best for Adrenaline Junkies



Ryze Tello Best for Kids Learning to Code



DJI Air 3
Best Obstacle Avoidance
System



DJI Mavic 3 Pro
Best Drone for Pro Video and
Cinema



DJI Mini 3 Best for Creators on a Budget



DJI Mini 2 SE Best Entry-Level Drone



DJI Mini 3 Pro Best Drone for Most Creators



DJI Air 2S Best for Photographers



Before we breakout into groups, please call us or email if you need help taking the next steps towards becoming a drone pilot or launching a drone program in your organization.

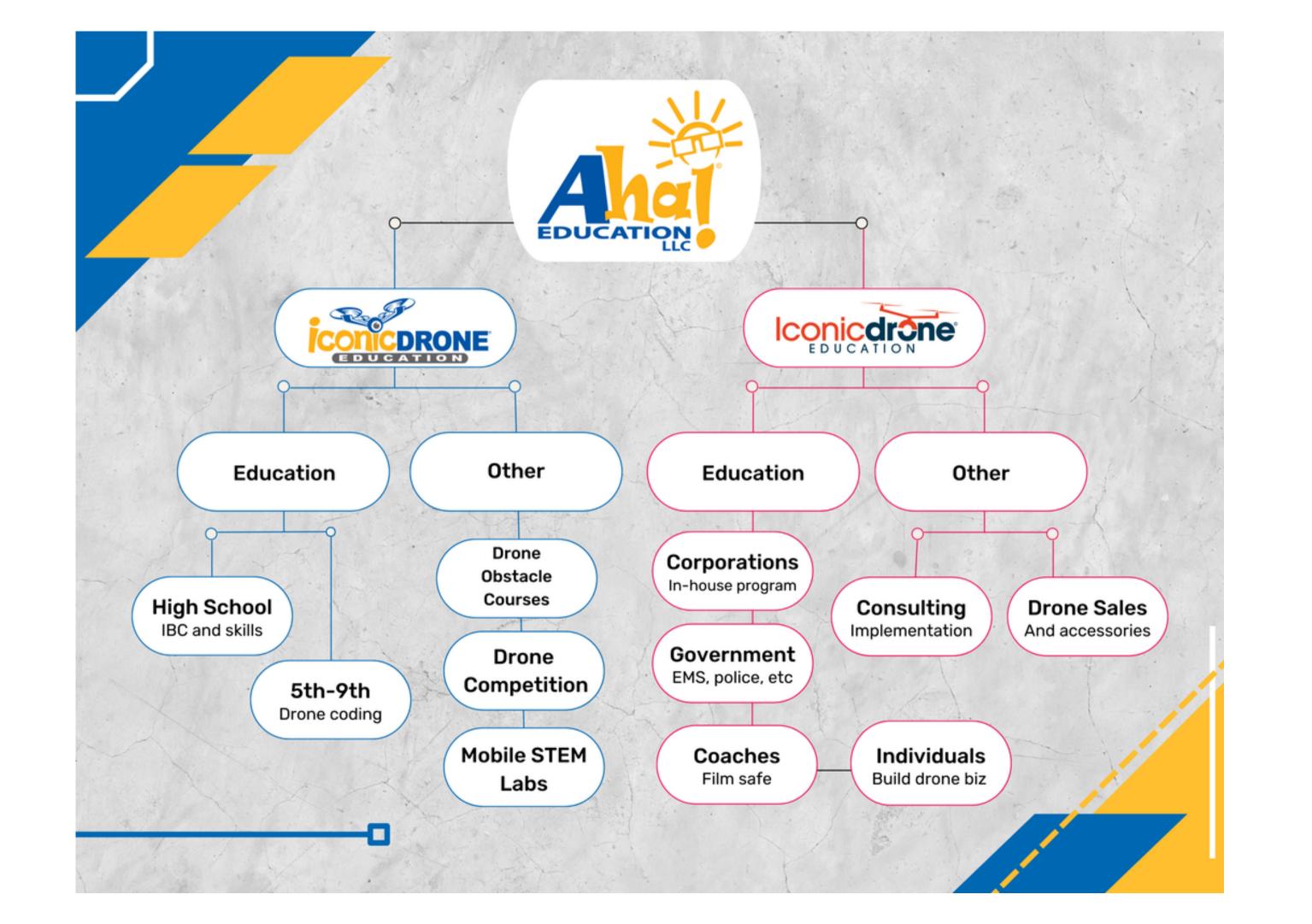
More info:

Aha Support Liason Line 210-850-7230 support@myahamoments.org www.ahaedu.net



Click on the Resource You Need:

Book A Meeting
Learn More About Iconic Drone Edu
Learn More About Pre-Commercial Iconic Plus
TEA Information - Drone Program of Study
Industry-Based Certification List



5th - 12th Drone Education



U.S. #1 IBC/CCMR Drone Education



U.S. #1 Coding Drone Education



'We focus on the whole student. That is what makes us different. We have ALL the tools to make that happen.'

Custom Mobile Labs

Businesses / Schools / Government / Law Classrooms - Training - Field Operations Custom Built, A/C, A/V, High Tech, Storage, Comfortable High Ceilings, Custom Flooring, LCD, LED, Sound System, etc

'Nobody comes close to beating Aha's prices!'

'Bang for the buck!'











Breakouts



Josh Beatty

Aha - COO

Schools
Districts

Education

Joe Paneitz

Aha - Owner/CEO

Individuals
Businesses
Government
All Others