

Each team MUST have control of drone at all times

Safety equipment – Eye Protection is required at all times!!!

Laptop computer (optional) used in Field 2 C

Drone – with extra blades, batteries charged (we recommend 10)

Blade guards on drone when flying

(one charged battery for each flight -5 flights required)

(know charge time for each battery and flight time for each battery)

Drone controller with batteries

Power strip

Battery charger

Tools required for working on drone

You will need to modify this drone to carry a payload. (see directions for payload challenge Field 2A)

Pit Area: General workspace for each team designated as a “pit” area

A pit area where teams work with drones will be provided. Each team will have a conference table, two chairs and access to a 120-volt electrical outlet. A practice area will be provided with one gate.

## Engineering Notebook Team Number \_\_\_\_\_

### Items Evaluated

	Possible Points	
	Points	Earned
Required Dress	25	<input type="text"/>
Resume	25	<input type="text"/>
Readability & Neatness	25	<input type="text"/>
Completeness	25	<input type="text"/>
Teamwork	25	<input type="text"/>
Illustrations, sketches, photos (research, practices, construction, {power point presentation})	50	<input type="text"/>
Written log entries accurately documenting the design	50	<input type="text"/>
Description of drone and materials with supporting materials	25	<input type="text"/>
List Safety equipment	25	<input type="text"/>
Connections used for equipment	25	<input type="text"/>
Explanation of operation	25	<input type="text"/>
List careers where drones maybe used	25	<input type="text"/>
Describe 5 jobs that use drone	25	<input type="text"/>
Write one paragraph that describes your thought about the future of drones.	50	<input type="text"/>
Written log entries accurately documenting the design	50	<input type="text"/>
Written log entries accurately documenting skill development.	50	<input type="text"/>
List FAA Rules for drones	25	<input type="text"/>
FAA registering information and fees.	25	<input type="text"/>
Length of a valid registration for a drone and where are numbers placed?	25	<input type="text"/>
Weight of drone (unregistered - no numbers {not over .55lb.})	100	<input type="text"/>
<b>Total Possible Points</b>	<b>700</b>	<input type="text"/>

NOTES

1. Fly only for recreational purposes (enjoyment).
2. Follow the safety guidelines of an FAA-recognized Community Based Organization (CBO).

Note: We have not yet begun officially recognizing CBOs. Recreational flyers are directed to follow the safety guidelines of existing aeromodelling organizations or use the FAA provided safety guidelines per Advisory Circular 91-57B.

3. Keep your drone within the visual line of sight or use a visual observer who is co-located (physically next to) and in direct communication with you.
4. Give way to and do not interfere with manned aircraft.
5. Fly at or below 400' in controlled airspace (Class B, C, D, and E) only with prior authorization by using LAANC or DroneZone.
6. Fly at or below 400 feet in Class G (uncontrolled) airspace.

Note: Flying drones in certain airspace is not allowed. Classes of airspace and flying restrictions can be found on our B4UFLY app or the UAS Facility Maps webpage.

7. Take The Recreational UAS Safety Test (TRUST) and carry proof of test passage.



8. Have a current registration, mark (PDF) your drones on the outside with the registration number, and carry proof of registration with you.
9. Do not operate your drone in a dangerous manner. For example:

Do not interfere with emergency response or law enforcement activities.

Do not fly under the influence of drugs or alcohol.

Individuals violating any of these rules, and/or operating in a dangerous manner, may be subject to FAA enforcement action.



**Federal Aviation  
Administration**

### Small UAS Certificate of Registration

CERTIFICATE HOLDER: **James Wolfe**

UAS CERTIFICATE NUMBER: **XXXXXXXXXX**

ISSUED: **01/12/2016**

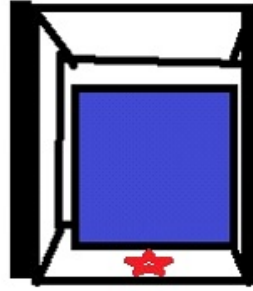
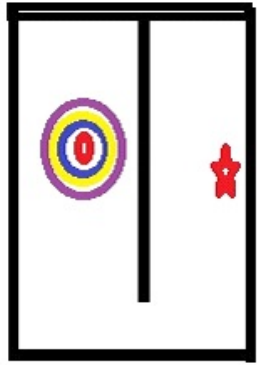
EXPIRES: **12/12/2023**

*For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.*

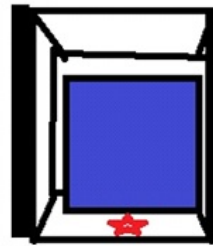
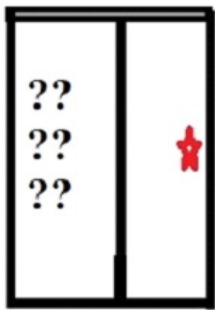
*Operators of unmanned aircraft must ensure they comply with the appropriate safety authority from the FAA and economic authority from the DOT. To operate as a recreational flyer, a person must meet all of the statutory conditions of the exception for limited recreational operations of unmanned aircraft (49 U.S.C. 44809). Persons who do not meet any of the statutory conditions may not operate under the statutory exception for limited recreational operations of unmanned aircraft and would need to operate the unmanned aircraft under part 107 or any other applicable FAA authority.*

**To fly under the exception for recreational flyers you must:**

- Register your drone
- Fly only for recreational purposes
- Follow the safety guidelines of a community based organization
- Keep your drone within the visual line of sight or use a visual observer
- Give way and do not interfere with any manned aircraft
- Get prior authorization before operating in controlled airspace
- Fly at or below 400' in uncontrolled airspace
- Comply with all airspace restrictions
- Pass an aeronautical knowledge and safety test



Field two top view & Front view



Field 2 C top view & Front view

[https://www.startengine.com/hylio-inc?utm\\_source=facebook&utm\\_medium=paid&utm\\_campaign=se-promote-hylio-inc&ad\\_id=23847258560240255&utm\\_term=23847258245820255&fbclid=IwAR1yH8ywump2XAGNRkPHNWHfCJgFmBGEed36POc9P1uPNN4FOS-vLxZQE\\_AM](https://www.startengine.com/hylio-inc?utm_source=facebook&utm_medium=paid&utm_campaign=se-promote-hylio-inc&ad_id=23847258560240255&utm_term=23847258245820255&fbclid=IwAR1yH8ywump2XAGNRkPHNWHfCJgFmBGEed36POc9P1uPNN4FOS-vLxZQE_AM)

