



ROBOTICS EDUCATION &
COMPETITION FOUNDATION

SUMMIT

AERIAL DRONE PROGRAM

WELCOME

Aerial Drone Competition

Presented by Louann Cormier and
Nadine Amaya

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RECF **DRONE** COMPETITIONS 



AGENDA



Aerial Drone Competition

Season Timeline & Competition

Competition Fields & Equipment



The Aerial Drone Competition



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Aerial Drone Competition vs Robotics Programs



What's the Same?

- **Competition Format:** Teamwork Matches, Piloting Skills, Autonomous Flight Skills, Judging
- **Standards:** Code of Conduct, Student-Centered approach
- **Resources:** Official Game Video, Library
- **Training:** Certifications, Coach Academy
- **Advancement:** Local qualifying competitions → Regional Championships



What's Different?

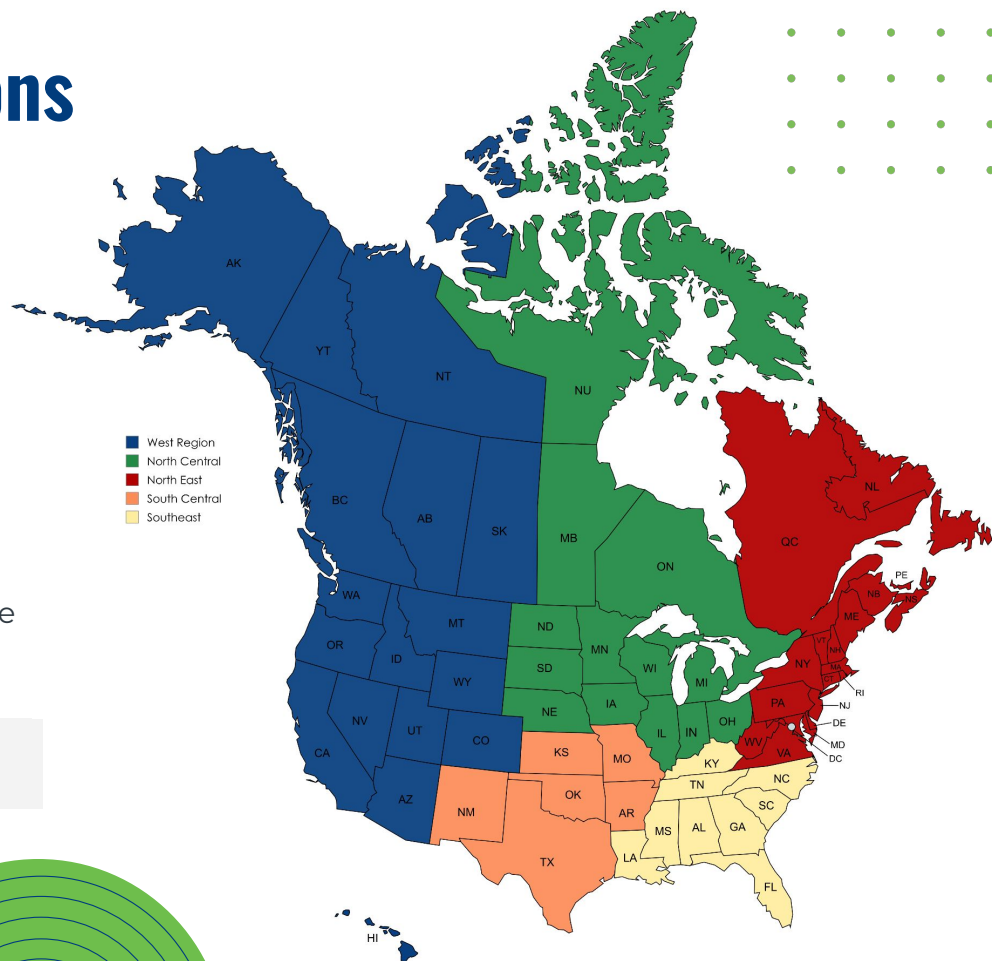
- **Season:** September–June
- **Time Commitment** - Fly out of the Box - No Build
- **Regions:** Larger areas (5 plus International)
- **Match Play:** Like Engage (2 teams per field per match) **with alliance selections**
- **Eliminations:** Bracket format (10 → 4 → 2)
- **Field Setup:** Separate field layouts for Teamwork vs. Skills fields
- **Documentation:** Competition Logbook (vs. Engineering Notebook)
- **Coding:** Not downloaded to drones; students tether controller to computer
- **LIVE Coding:** Students make adjustments to code in between resets

Mission 2026 Event Regions

The US and Canada are divided into five geographic event regions.

- Each region hosted a Middle School and a High School end-of-season Event Regional Championship.
- JROTC National Championship includes JROTC teams from all regions and military services.
- JROTC schools outside the continental US will be assigned to one of these five regions.

Subject to Change





THE CODRONE EDU

CoDrone EDU is a programmable drone ideal for learning

- Python or Block-Based Coding
- 7 Sensors

Color Sensor

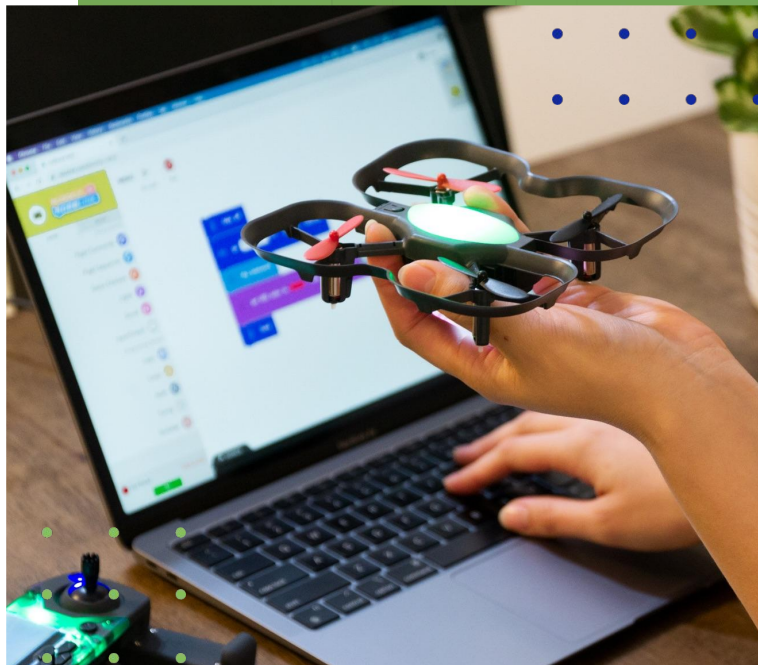
Bottom Range

Front Range

Gyroscope

Optical Flow

Accelerometer Barometer



FUTURE INNOVATORS ON THE RISE

Raising the bar through competition

4 Missions - 1 Competition Students compete in local and national events. Competitions are recommended for students in grades 5-12.



Teamwork Mission

Drones are piloted by students. Two teams fly together on the same competition field to maximize their score in a 90 second match.



Piloting Skills Mission

Drone is piloted by students to fly through an obstacle course. Each team competes alone to score as many points as possible in a 60 second match.



Autonomous Flight Skills Mission

Drone is programmed by students to operate entirely autonomously. Each team competes alone to score as many points as possible in a 3 minute match.

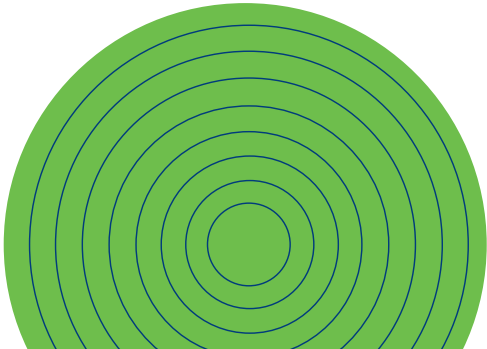


Communications Mission

Teams interview with Judges about their Drone, Programming and Competition Logbook Documentation.

Alliance Selection for Aerial Drone Competition

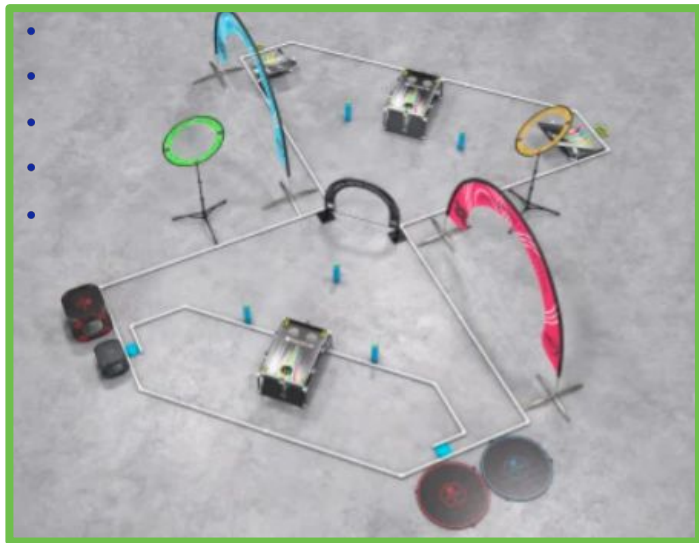
Quarterfinals	Semifinals	Finals	Winner
			
			
			
			
			
			
			
			
			
			
			



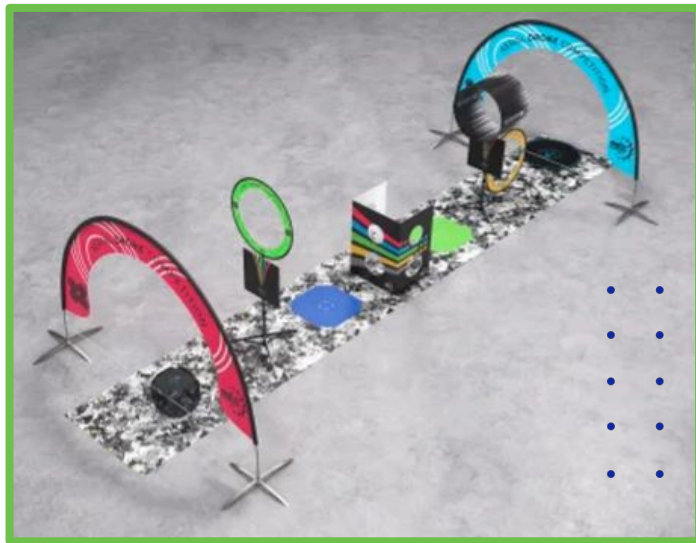
No. of Teams	No. of Alliances	Elimination Begin At
20 or more	10	Quarterfinals
8-19	4	Semifinals
7 of less	2	Finals

Elimination Matches are played sequentially in rounds. At the end of each round, the highest-scoring Alliances will move on to the next round. Each round of Elimination Matches is played sequentially, starting with the lowest-ranked Alliance. Rankings are recalculated after each round.

Teamwork Field Layout



Skills Field Layout



Mission 2026: Time Warp - Will be different for Mission 2027

ADC Season Timeline

MISSION 2027



COMING SOON

June 2026

Season
Registration
Opens and
Game Element
Preorders
Available

August 11, 2026

Season Reveal

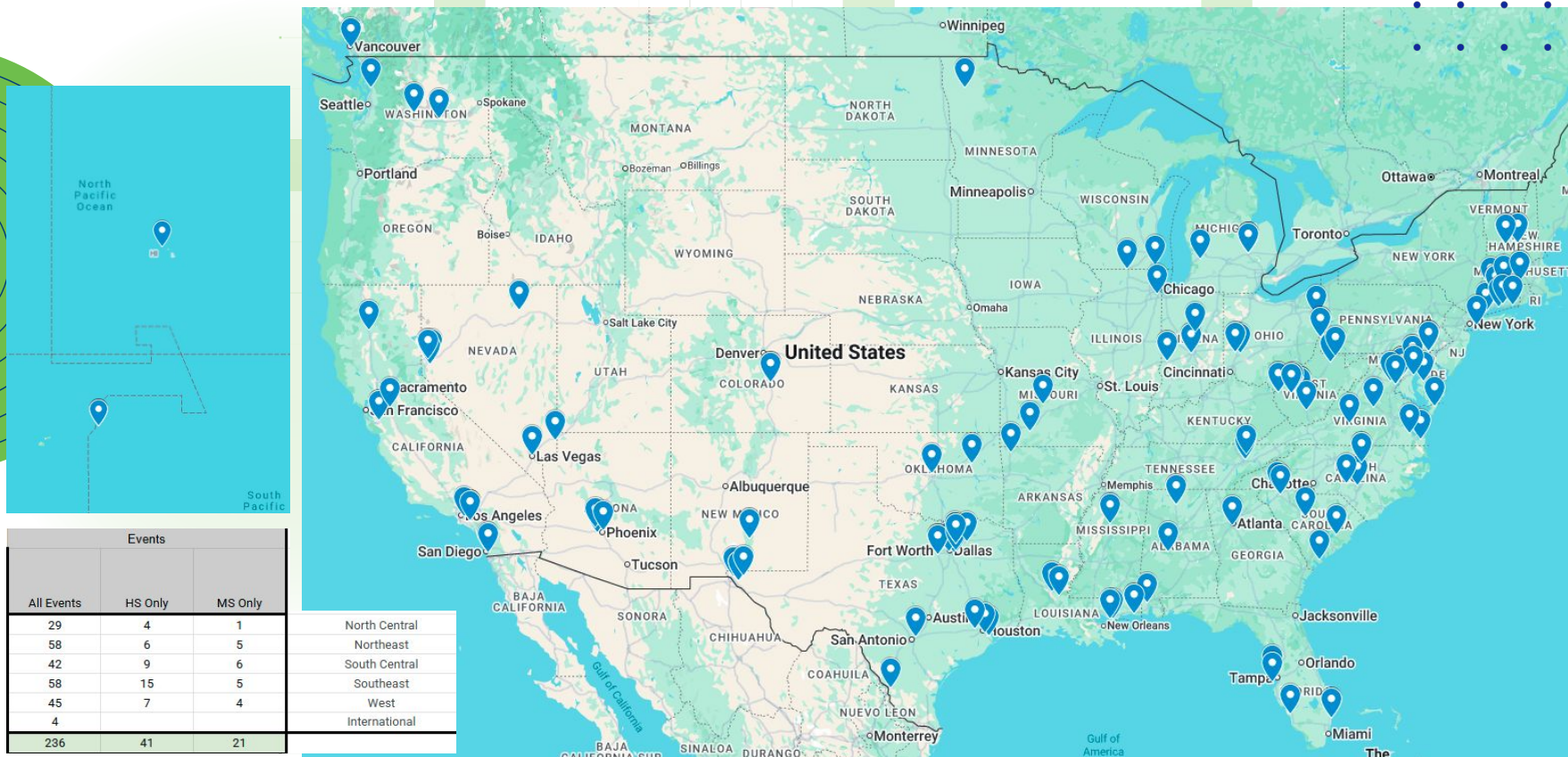
October 2026

Qualifying
Competitions
Begin

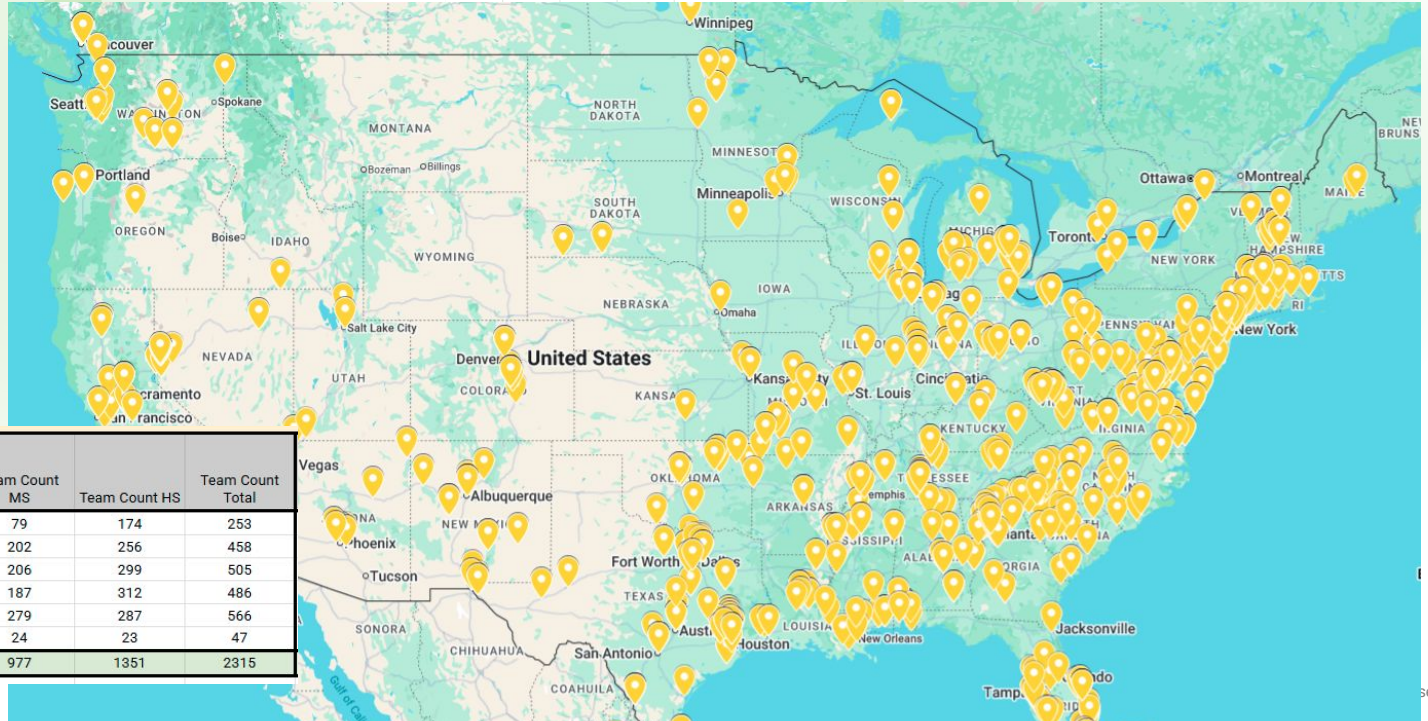
TBD

Championship
Structure

Mission 2026 Events (last season)



Mission 2026 Teams (last season)



Region	Team Count MS	Team Count HS	Team Count Total
North Central	79	174	253
Northeast	202	256	458
South Central	206	299	505
Southeast	187	312	499
West	279	287	566
International	24	23	47
Totals	977	1351	2328

New this Season

Adding another grade level

- Elementary School **U12**
- Middle School **U15**
- High School **U19**

Equipment

- Additional PVC is not required for this Mission. Event Partners may still use PVC to create the field perimeter, but tape or cones are also acceptable.



The Equipment



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ROBOLINK★

\$249

- 1 CoDrone EDU (JROTC Edition)
- 1 Smart Controller (2x AA batteries not included)
- 2 rechargeable batteries
- 1 two-battery charger
- 1 micro USB cable
- 1 propeller removal tool
- 1 set of extra propellers (2 clockwise, 2 counter-clockwise)
- 1 screwdriver, extra screws and bolts
- 1 Quickstart Guide
- 1 set of drone and controller labels
- 8 color landing pads



MORE INFORMATION

Note: The JROTC edition was created to meet funding requirements for the JROTC programs. It's the same drone as the CoDrone EDU, but with specific components sourced from different manufacturers to meet those requirements.

ROBOLINK★

\$314.99

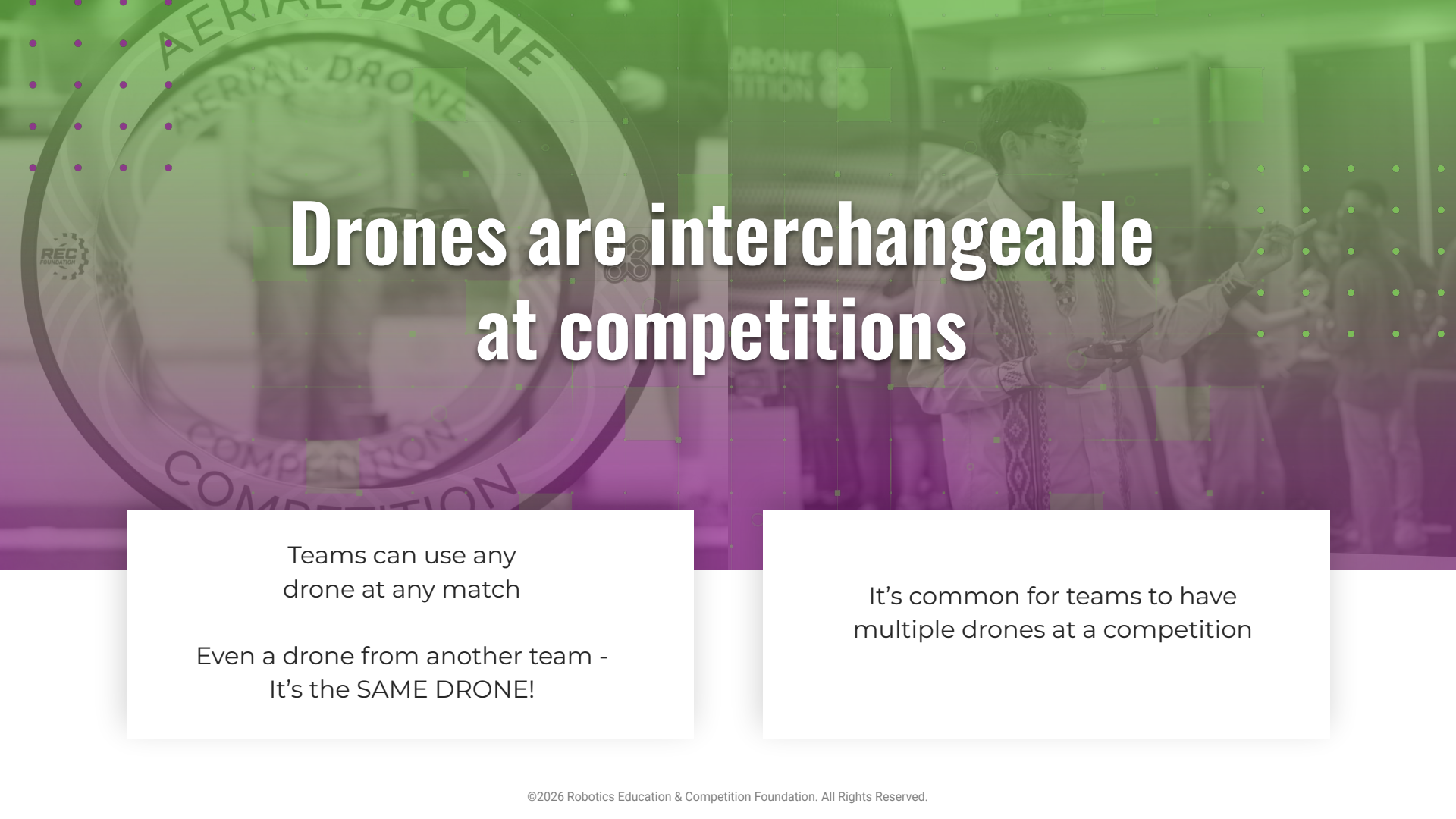
CoDrone EDU JROTC

- 1 CoDrone EDU (JROTC edition)
- 1 Smart Controller (JROTC edition)
- 3 rechargeable batteries
- 1 dual-battery charger with USB-C cable
- 1 propeller removal tool
- 1 set of extra propellers (2 clockwise, counter-clockwise)
- 1 screwdriver, extra screws and bolts
- 1 Quickstart Guide
- 1 set of drone and controller labels
- 8 color landing pads



MORE INFORMATION

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Drones are interchangeable at competitions

Teams can use any
drone at any match

Even a drone from another team -
It's the SAME DRONE!

It's common for teams to have
multiple drones at a competition

Drone Inspections

<S4> Teams must pass Flight Clearance Inspection and use the Pre Flight Checklist at competitions.

When a Team arrives at a Tournament, they must go through a Flight Clearance inspection to confirm the following:

- Teams and equipment are in compliance with regulations.
- Teams are required to inspect their Drone and controller using a Pre Flight Checklist before every Match.



Inspectors are not expected to inspect every Drone that is brought to the competition, but rather, confirm verbally with the Teams that all Drones are in compliance with the rules. A Flight Team member will sign the Flight Clearance inspection checklist to confirm the agreement.



SCAN ME

FLIGHT
CLEARANCE
INSPECTION



SCAN ME

PRE FLIGHT
CHECKLIST



\$1000

Field Element Kit V3

- 2 Arch Gates (1 Red, 1 Blue)
- 2 Keyhole Gates (1 Yellow, 1 Green)
- 2 Landing Pads (1 Red, 1 Blue)
- 1 Cube 12" (Blue)
- 1 Cube 18" (Red)
- 3 Programming Mats & 3 Color Mats
- Tunnel
- One time purchase that can be used year after year.



DRONE
COMPETITION GATES

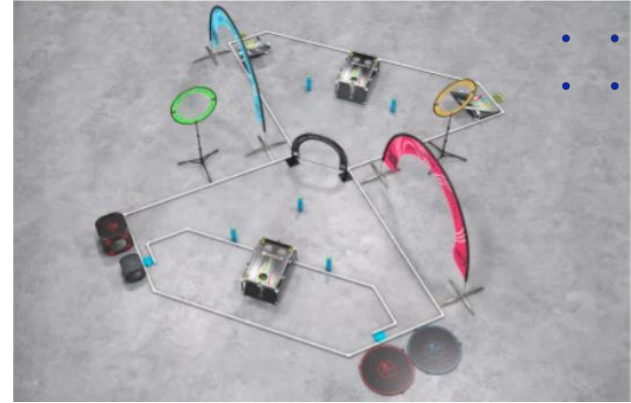
ORDER NOW

Pro Tip: If funds are limited, get creative. Use pool noodles, hula hoops, and boxes. Approximate measurements of the field elements can be found in the competition manual.

This is comparable to the field perimeter and tiles in robotics

- The Competition Elements are used to create the Competition Field.
 - You need one Kit to create the Teamwork Field
 - You need one Kit to create the Skills Field
- Depending on the season, not every element may be used in the field layout. However, across different seasons, all elements will be used at some point.
 - For example, last season the Skills Field included only one blue landing pad, so the red landing pad was not used. In a future season, however, the red landing pad could be part of the layout.

Teamwork Mission Field



Skills Missions Field

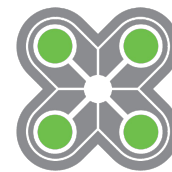


\$360

Game Elements

These will change every season based on the missions designed.

New Game Elements for Mission 2027 are available for preorder now and will be delivered in August.



AERIAL **DRONE**
COMPETITION



ORDER NOW

Game Elements for ADC

When you open a box of Game Elements for the Aerial Drone Competition, you will have all of the game elements needed for that season's mission. Some elements will be used on the Teamwork Field, while others will be used on the Skills Field.

This approach was designed with coaches in mind, especially those who have only one Competition Field available for practice. By using a single set of Game Elements, they can configure the field as either a Teamwork Field or a Skills Field as needed.



For example, last season the Tunnel, Fly-Through Panel, and Flat Panels were used on the Skills Field, while all of the remaining elements were used on the Teamwork Field.

\$240

Trophy Pack - 8 Pack

- 1 All Around Champion
- 2 Teamwork Mission Champions
- 1 Skills Mission Champion
- 1 Communications Mission Champion
- 1 Airmanship Award
- 1 Coding Award
- 1 Judges Award
- * 2 Extra Plates for Blended Events
 - All Around and Skills Mission



ORDER NOW

No EP Discount Programs

- There are no EP discount programs for fields or game elements.
- The focus is on providing grants when needed.
- This approach allows us to prioritize organizations with demonstrated need rather than creating an expectation that EP grants or free equipment will always be available.
- It also helps keep overall program costs lower while ensuring resources are directed where they can have the greatest impact.



Resellers exist

- Products can be purchased directly from our preferred product suppliers
 - Robolink
 - Drone Competition Gates
- Robolink has International Partners (Resellers)

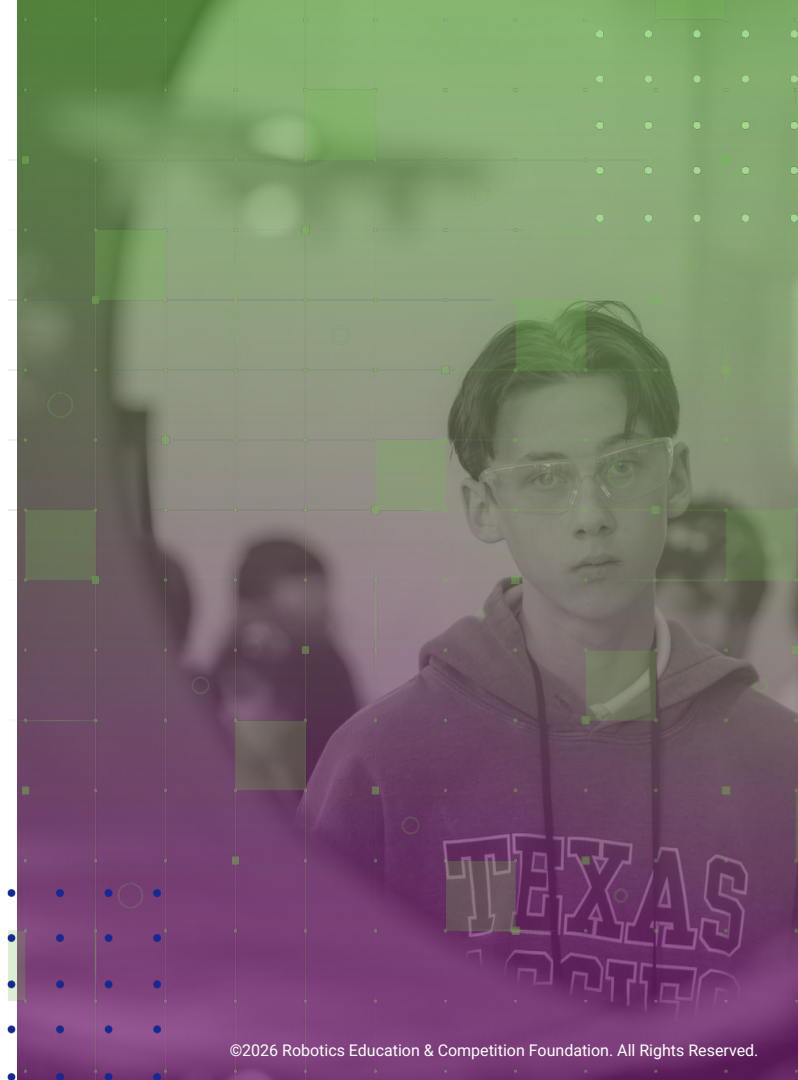
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iDesign - Canada
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AWARDS

Team Recognition



PERFORMANCE AWARDS

These awards are based on team performance, rankings and scores earned during Teamwork and Skills Missions.

- Teamwork Mission Champions
- Skills Missions Champion

JUDGED AWARDS

These awards are based on a combination of interviews, team competition logbooks, and overall team conduct and performance.

- All-Around Champion
- Communications Mission Award
- Airmanship Award
- Coding Award
- Judges Award

Contact

We are here for you

If you need any further information about our drone program, one of our staff members will be able to assist you. You can contact us via email or phone, and our team will be happy to help. Additionally, you can visit our website for more details.

Address

111 Taylor Plaza Dr
Greenville, Texas 75402

Phone & Email

903 401 8010
drones@recf.org

Website

drones.recf.org

Resources



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THANK YOU!

