

Northeast



Team Drone Challenge

CNY Drones



CNY Drones

volunteer run

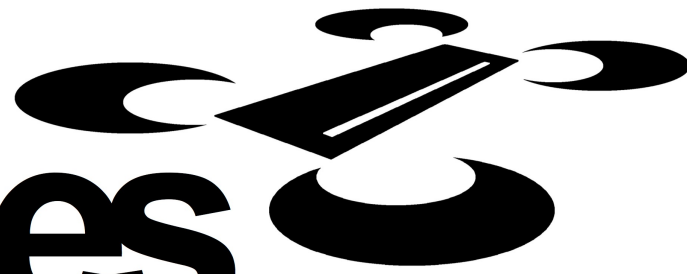
community-based organization

promoting drone-focused STEM



*We encourage exploration of the regional drone
education & employment pipeline!*

CNY Drones



- drone industry professionals
- educators
- college students
- drone enthusiasts





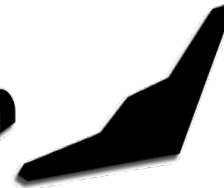
AMA®

**ACADEMY OF
MODEL AERONAUTICS**



MAASC
MODEL AVIATION
STUDENT CLUB

LIMASC



**Interactive
Drone Exhibits**

**Information Hub
& Professional Learning
Community**



Tech Meets

**Annual
Northeast
Team Drone
Challenge**

**Build
Workshops**

**Indoor
Mini-Challenges**

**Introductory
Learn-to-Fly
Sessions:
Experience FPV**



Northeast
Team Drone Challenge
OBJECTIVES

Low cost

Accessible \$

Easy to recreate elements

Challenging

Spark & hold interest

Focus on the Framework for NGSS

Relevant

Relate to regional drone tech economy

Simulate real-World situations revolving around a theme

Practical

Easy to get involved

Year-round support – vs. one & done



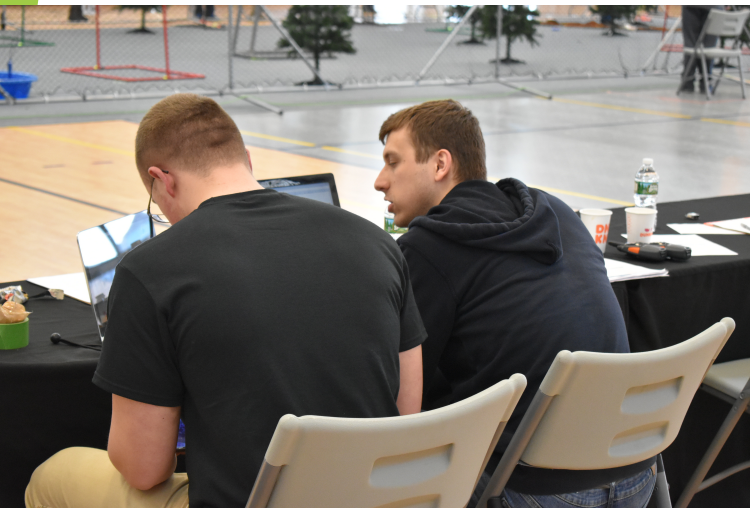
- ❑ Created & Run Entirely by Volunteers
- ❑ Supported by Generous Sponsors

Hosted By

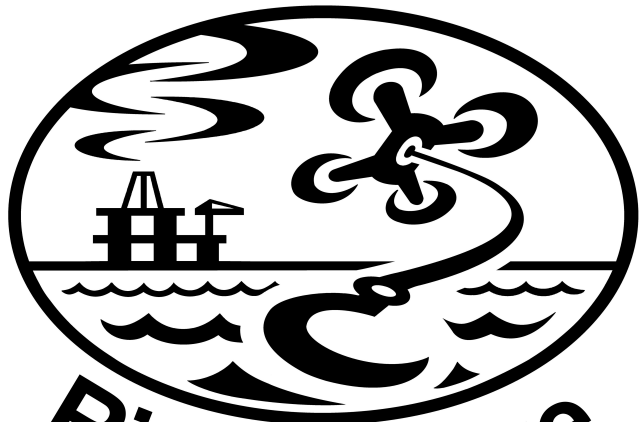
SUNY Polytechnic Institute's



Student Clubs



Northeast Team Drone Challenge



Rig Rescue
2018 Team Drone Challenge

April 15, 2018



Forest Fury
2019 Team Drone Challenge

April 4, 2019



FARM-i-GEDDON
2021-2022 Northeast Team Drone Challenge

April 2022



3rd Season

Targeting one of the fastest growing areas of drone tech



Why FARM-i-GEDDON?

Growth in Industry Adoption (YoY)

While dozens of industries use drones, the fastest growing commercial adopters of aerial data come from the construction, agriculture, and mining industries.



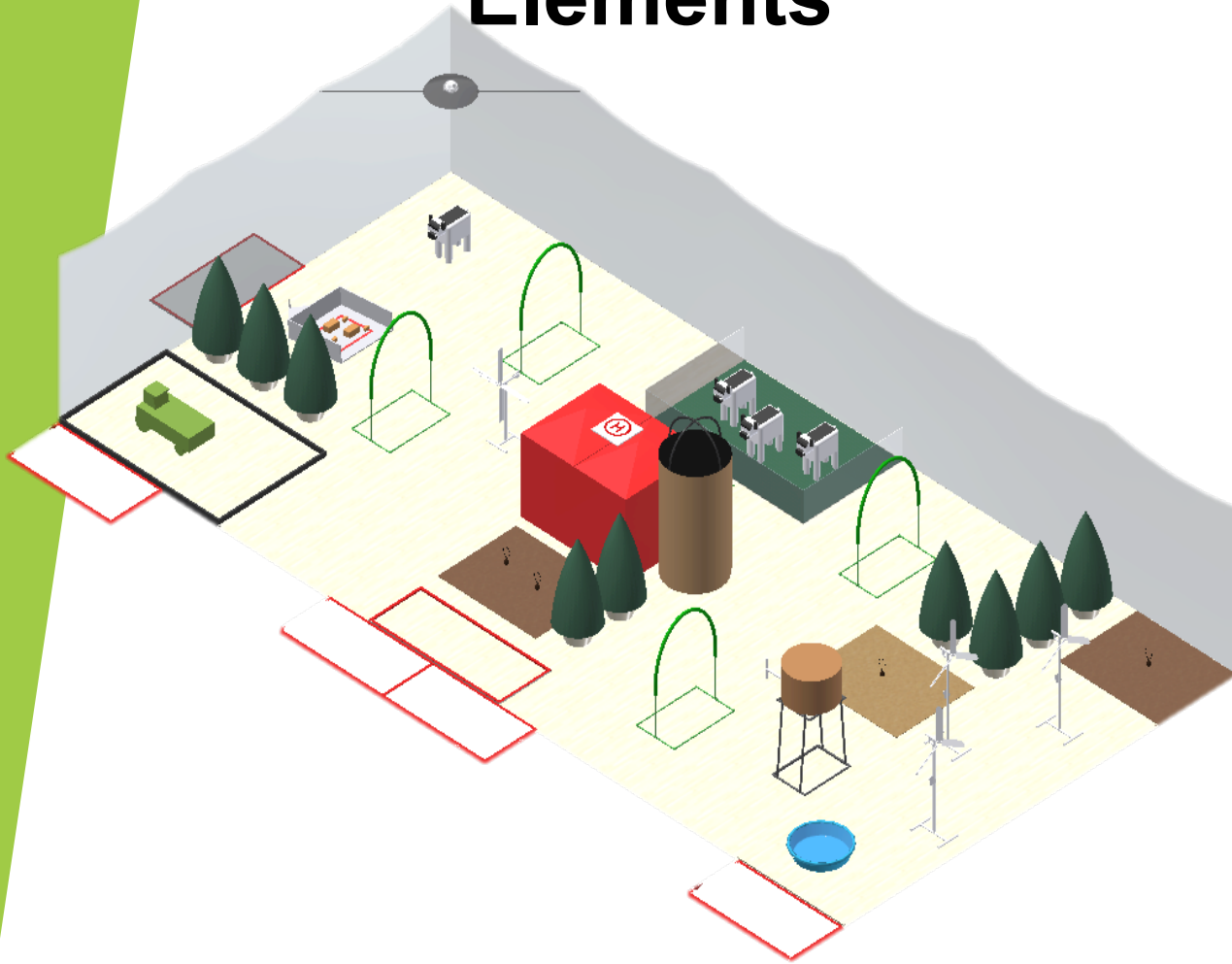


Northeast
Team Drone Challenge

Skills

- Drone Building & Repair
 - Problem Solving
 - Teamwork
 - Mission & Safety Planning
 - FPV & LOS Flying
 - Hovering
 - Obstacle Avoidance & Evasive Maneuvering
 - Mapping
 - Identification & Documentation
 - Switch Manipulation
 - Search & Rescue
-& More!

Agriculture Themed Elements



- Mission & Safety Planning
- Soil Sample Retrieval
- Field Health Determination
- Hay Bale/Object Retrieval
- Livestock Identification
- Mapping
- Wind Turbine ID & Activation
- Irrigation System Activation
- FPV Silo Search & Rescue
- Landing, Take-Off & Agility



SEPTEMBER
Build Season
Kick-Off

APRIL
Competition
in Utica, NY



COMPETITION AREA

30'x60'
Volleyball Court Size

Indoor
Netted Field

FIELD LAYOUT & DETAILS

Provided to
Registered Teams



- **50+ Page 2-Part Manual**
- **Element Build Guide**
- **Sample Drone Build & Reference Material**
- **Mentors Available**
for General Questions



Supported by
**TECH
MEETS**

Monthly
Oct – Mar

See Our Website
Events Calendar



**Max Teams
Per Division
12**

**Team Size
2+**

- **Schools**
- **Classrooms**
- **Afterschool Programs**
- **Community Groups**
- **Friends & Families**
- **ALL WELCOME!**



ENCOURAGES SAFETY

AMA Member &
FAA Certified UAV Pilot

Supervised

- ✓ Field Managers
- ✓ Scorekeepers
- ✓ Judges





NEW TEAM REGISTRATION

Sept. 28 – Nov. 30
\$100

Registered from 2019/2020?

just send us
updated team info
to reserve your spot!



REGISTRATION

Online

- ✓ PayPal
- ✓ Checks
- ✓ School/Org PO's



May -
September

**FIELD
ELEMENT
Building
&
TEAM
MANUAL
Finalization**



WIND TURBINE Element



TEAM AWARDS

- ✓ Challenge Champion (top scoring)
- ✓ Design Innovator
- ✓ Creativity
- ✓ Judge's Choice





**Initial Team Cost
Including Competition**

~\$800



SAMPLE COMPETITION DRONE

~\$300

Specs Available



Northeast 
Team Drone Challenge

PROMOTES
Student &
Technical Expert
Interaction
& Sharing

SUNY Campus
Showcased



Northeast 
Team Drone Challenge

Year-Round

**STUDENT DEMO
&
VOLUNTEERING
OPPORTUNITIES**

Join us at one of our
many events!



NEED HELP GETTING STARTED?

Contact Us!

We connect
new coaches
to our network!

- ✓ tech-minded mentors
- ✓ teachers
- ✓ drone enthusiasts



CNY Drones 

Northeast 
Team Drone Challenge

MORE INFO @
CNYDRONES.org





NORTHEAST Competition Day

Hosted by
SUNY AMA Student Club

TBA April 2022

**SUNY Polytechnic Institute
Utica, NY**

FREE Admission!

Join In!

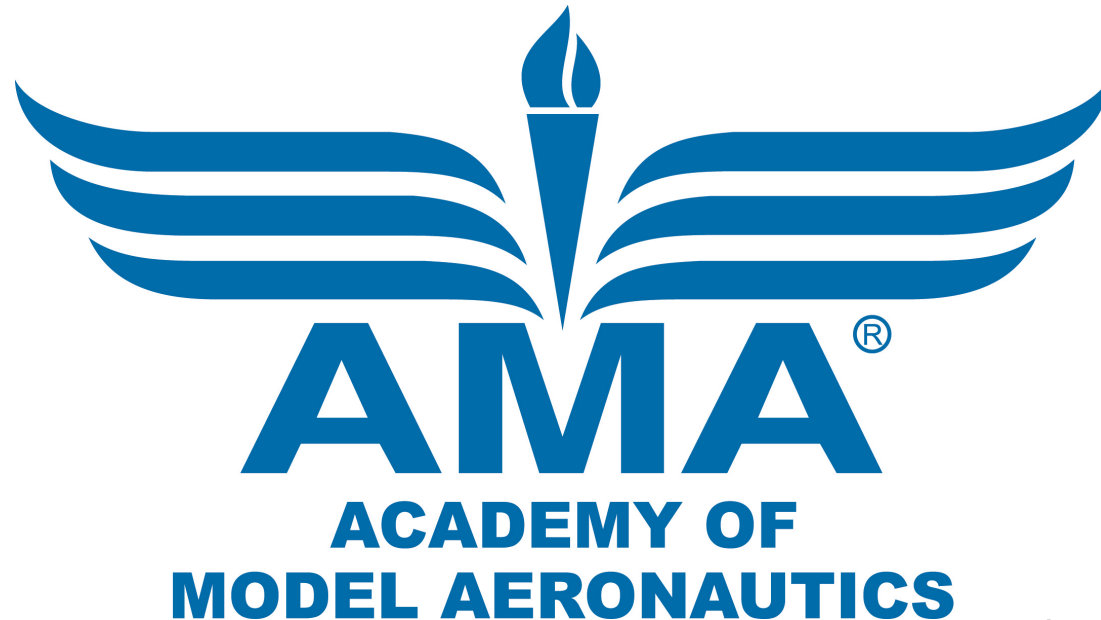
- ✓ **No drone experience necessary**
- ✓ **Low cost**
 - Less than \$1,000 to start a team including competition registration
- ✓ **Low time commitment**
 - 6 month build window
- ✓ **Support provided**
 - Online resource files
 - Access to mentors
 - Network of teacher/coaches



Get Started

Academy of Model Aeronautics

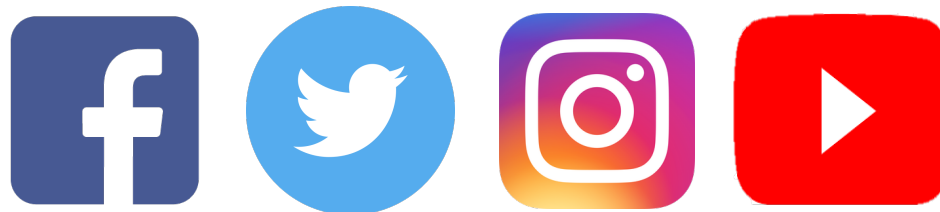
Membership FREE for ages 12-18



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MORE INFO @
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Watch as we ramp up!

- ✓ Community Demos
- ✓ Tech Meets
- ✓ Networking
- ✓ Mentoring