



# DRONE PATHWAYS

The New Standard in UAS Education

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Engineering the Future of CTE Workforce Readiness

# Meet Your Presenter: Jan Zatloukal

- Instructional Designer at PCS Edventures
- 8+ years as an educator with experience from elementary through high school as well as leading professional development with teachers
- FAA Part 107 commercial drone pilot certification



# LIVE GIVEAWAY!

Live Giveaway: We are giving away **three indoor mini drones** during today's presentation.

You must be present during the drawing to claim your prize.



## AGENDA & INTRODUCTION

# TODAY'S AGENDA

- ❑ Drone Workforce & Career Outlook
- ❑ Introducing the Drone Pathways Program
- ❑ Meet the FLEX UAV
- ❑ CTE Standards-Aligned Curriculum
- ❑ Program Pricing & Packages
- ❑ Live Q&A
- ❑ Post-Webinar Survey
- ❑ Mini-Drone Giveaway Drawing



# | Audience Question - 1

WHAT AGE GROUP DO YOU TEACH OR WORK WITH?

- A. Elementary School
- B. Middle School
- C. High School
- D. Post-Secondary / Adult  
Education

**Please submit your answers in the chat window!**

## | Audience Question - 2

Have you used drones with your students before?

- A. Never
- B. A few times
- C. We have a dedicated drone program in place

**Please submit your answers in the chat!**

## DRONE WORKFORCE & CAREER OUTLOOK

# DRONE WORKFORCE & CAREER OUTLOOK

Market Growth: The global commercial drone market is estimated to grow by around 37% each year until 2034 (*Source: Precedence Research, 2024*).

High-Wage Careers: Commercial pilots and aerospace operators can earn up to \$215,663 annually (*Source: Bureau of Labor Statistics & Industry Data*).

The Industry Shift: We must prepare students for high-demand technical careers—**drones are a great way to get students started!**



# Drone Applications



What kinds of problems can be solved with drones?

<p><b>Problem:</b> A bridge has a crack underneath it, but it is too dangerous for a human to climb down and inspect it.</p>	<p><b>Drone Solution:</b> A drone can fly underneath, hover in place, and take high-resolution photos of the crack without putting a person at risk.</p>
<p><b>Problem:</b> A farmer needs to count the number of healthy corn stalks in a massive 500-acre field, which would take days to walk.</p>	<p><b>Drone Solution:</b> A multi-rotor drone can fly over the entire field in a grid format, taking hundreds of photos to create a detailed map.</p>
<p><b>Problem:</b> After a storm, a power line is down in a dry field, creating a fire risk for human crews approaching on foot.</p>	<p><b>Drone Solution:</b> A drone can quickly fly over the hazard to assess the damage and identify fire risks from a safe distance .</p>
<p><b>Problem:</b> A filmmaker wants a "bird's eye view" of a car chase scene through a narrow city alleyway.</p>	<p><b>Drone Solution:</b> A small, agile drone can fly fast and maneuver through tight gaps that a helicopter could never fit through.</p>

## INTRODUCING THE DRONE PATHWAYS PROGRAM

# DRONE PATHWAYS: FOUNDATIONS OF FLIGHT



# DRONE PATHWAYS: FOUNDATIONS OF FLIGHT CURRICULUM



## TURN-KEY SOLUTION

The program comes with everything you need to implement the 20× 45-minute lessons.



## CRM FOCUS

Embedded Crew Resource Management training to build professional industry habits.



## FLIGHT SIMULATOR

Chromebook compatible flight simulator training with real-time progress tracking.

## MEET THE FLEX UAV

# PURPOSE-BUILT for CTE

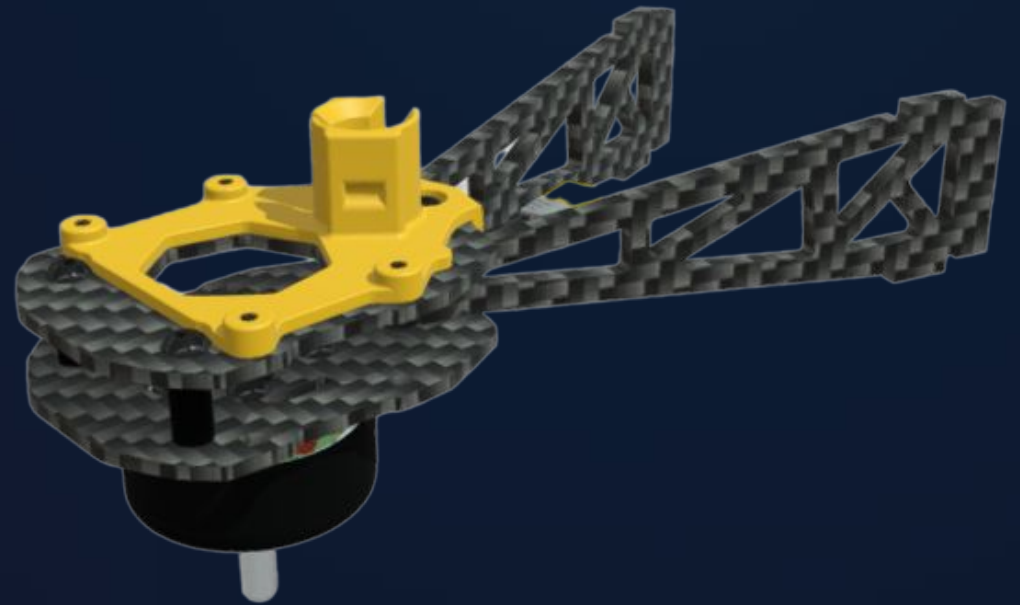
- Curriculum specifically designed for the FLEX UAV drone
- Durable
- Student-buildable
- Repairable
- Modular design - *future hardware expansions*
- Autonomous waypoint mission planning capable



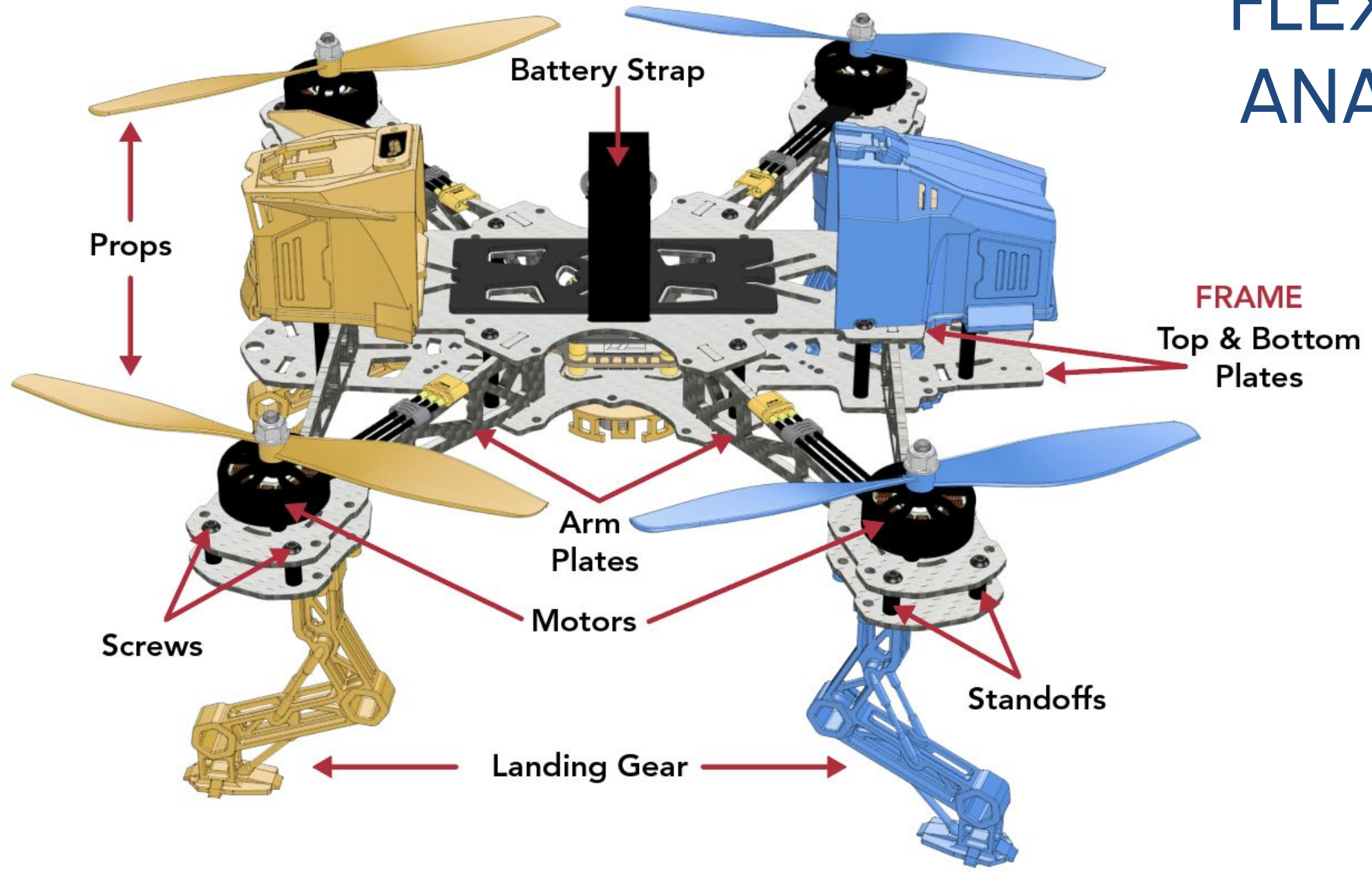
# FUTURE PROOF: MODULAR ADD-ONS

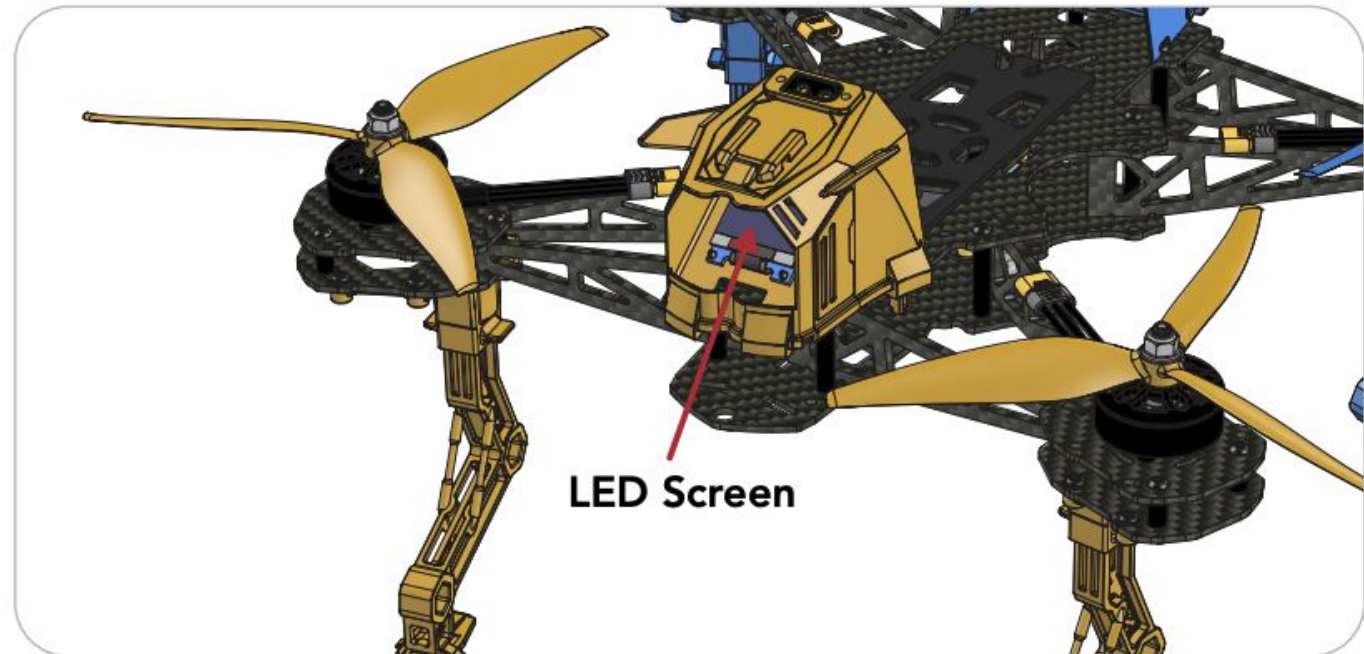
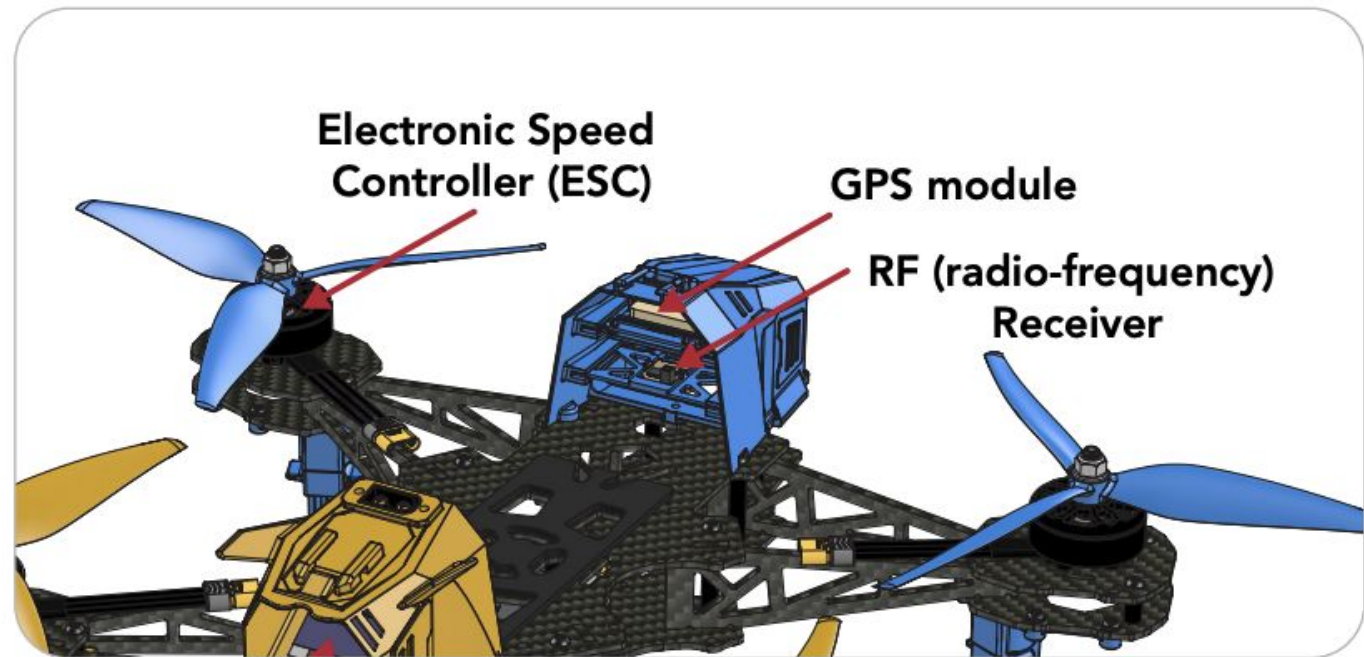
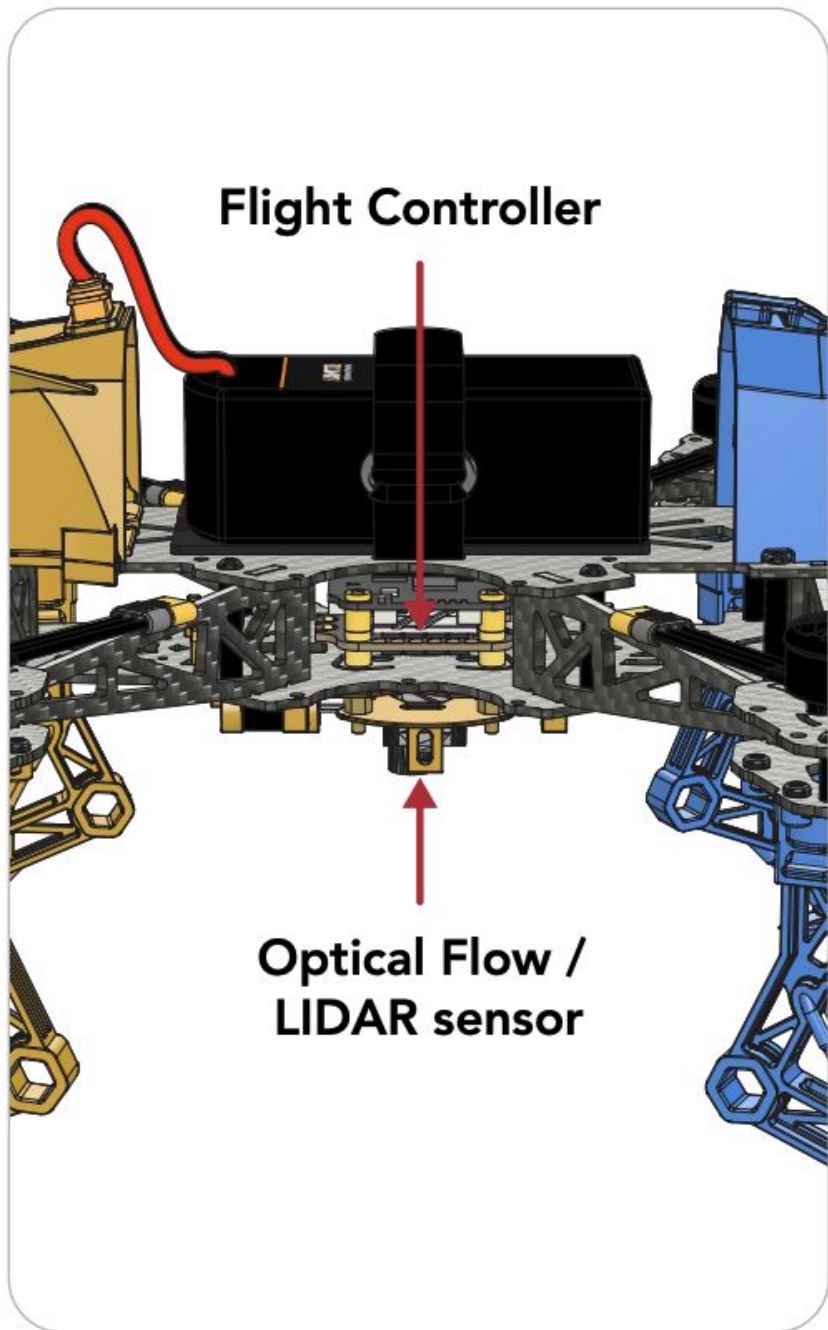
The modular platform is built for expansion.

Districts can rapidly grow their existing programs with curriculum/hardware add-ons to the base program.



# FLEX UAV's ANATOMY





## CTE STANDARDS-ALIGNED CURRICULUM

# Aligned to 5 state CTE standards frameworks

CA: California State Anchor Standards

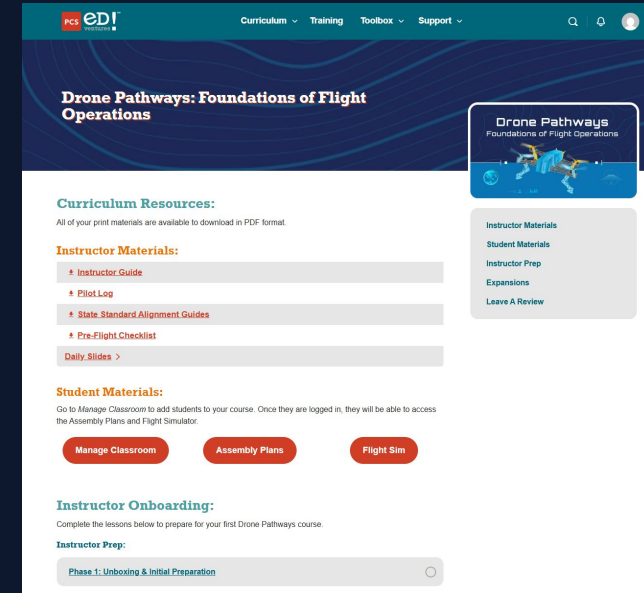
FL: Unmanned Aircraft Systems (UAS)  
Operations 1

SC: Drone Technologies 1

TN: Unmanned Aircraft Systems Pilot

UT: Unmanned Aerial Systems

# CURRICULUM RESOURCES



- Instructor Guide
  - Technical Documentation
- Student Pilot Logs
- Digital Onboarding Resources, Assembly Plans, and Slides
- Flight Simulator (*web-based compatible with Chromebooks*)

## PROGRAM PRICING & PACKAGES

# CTE BASE PACKAGE 5-DRONE \$8,995



<b>CTE Starter Kit</b> <b>\$3,995</b>	<b>CTE Base Kit</b> <b>\$8,995</b>	<b>CTE Plus</b> <b>\$16,995</b>	<b>CTE Pro</b> <b>\$22,995</b>
<p>2 drones</p> <p>2 Backpacks  3 Radio Controllers  8 Flight Simulator Controllers  10 Safety Glasses  2 Batteries  1 Charger  Extra legs  Extra props  Tools  Drone Pathways Educator Guide  Pilot Logs  Access to the Digital Resource Portal</p> <p><i>Complimentary PD webinar</i></p>	<p>5 drones</p> <p>5 Backpacks  6 Radio Controllers  20 Flight Simulator Controllers  25 Safety Glasses  5 Batteries  2 Chargers  Extra legs  Extra props  Tools  Drone Pathways Educator Guide  Pilot Logs  Access to the Digital Resource Portal</p> <p><i>Complimentary PD webinar</i></p>	<p>10 drones</p> <p>10 Backpacks  11 Radio Controllers  20 Flight Simulator Controllers  25 Safety Glasses  10 Batteries  4 Chargers  Extra legs  Extra props  Tools  Drone Pathways Educator Guide  Pilot Logs  Access to the Digital Resource Portal</p> <p><i>Complimentary PD webinar</i></p>	<p>10 drones</p> <p>10 Backpacks  11 Radio Controllers  20 Flight Simulator Controllers  25 Safety Glasses  10 Batteries  4 Chargers  Extra legs  Extra props  Tools  Drone Pathways Educator Guide  Pilot Logs + Extras  Access to the Digital Resource Portal  Part 107 Prep Course for Drone Pilot Certification (50 Seats/1 Year)  BAT SAFE XL Battery Storage Box  Cone Markers  First Aid Kit  Safety Vests  Racing Flags  Racing Gates  Premium Spare Parts Set (Landing Gears, Motors, Screws, Standoffs)</p> <p><i>Complimentary PD webinar</i></p>

# YOUR NEXT STEPS

## SCHEDULE A CONSULTATION

Meet with a STEM Specialist to map your  
career pipeline.

[edventures.com/consult](https://edventures.com/consult)

[dronepathways.com](https://dronepathways.com)

Thank you for engineering the future of CTE with us!