

Agenda

Presented by Chuck Adams

Overview of Unmanned Aircraft Systems (UAS) in Construction

Uses for UAS in construction

- Mapping
- Monitor progress
- Site reconnaissance
- Improve safety

Types of UAS

Economics of using UAS

In-house vs. outsource UAS

UAS Regulation, Risk and Liability

Federal and state regulation of drones

FAA remote pilot certification

Potential liability risks

Commercial drone insurance

Construction Site Mapping with UAS

Benefits

Software

Process

Data analysis and use

Civil Engineering and Surveying

Digital twins with drones

Sewer inspection and water sample collection

Topographical image processing with AutoCAD

Volumes of excavation pits or soil/stone stockpiles

Calculating cut and fill

3D modeling

Using UAS to Monitor Progress, and Maintain Safety and Quality

Monitoring construction progress

Maintaining safety

Quality control

Post-Construction: Using UAS to Conduct Periodic Structural Inspections

High-risk inspections

UAS inspection capabilities

Case studies

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Drones in Construction

Live, Interactive Webinar - Friday, June 24, 2022

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Learning Objectives

You'll be able to:

Explore uses for Unmanned Aircraft Systems (UAS) in construction, including mapping, site reconnaissance, and improved safety.

Review Federal and state regulation of drones and discuss potential liability risks.

Examine construction site mapping software.

Explore topographical image processing with AutoCAD.

Use UAS to monitor construction progress and improve quality control.

Explore UAS post-construction inspection capabilities.



HalfMoon Education Live Webinars

Drones in Construction

Live, Interactive Webinar - Friday, June 24, 2022



Examine the roles of Unmanned Aircraft Systems (UAS) in construction

Understand UAS regulation, risk, and liability

Learn about construction site mapping with UAS

Use UAS to monitor construction progress and maintain safety

Use UAS to conduct periodic structural inspections

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 non-HSW CE Hours

6.5 AIA LU | Elective

Landscape Architects

6.5 HSW CE Hours

6.5 LA CES HSW PDHs



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Faculty



Chuck Adams
CEO, 1UP Aerial Drone Services, headquartered in Golden, CO
Mr. Adams is CEO of 1UP Aerial Drone Service, which sells drones and sensors, and provides expert consultation and aerial services to a range of industries, including engineering, commercial real estate, land development, construction, insurance, forensic science, surveying. Mr. Adams is an FAA Part 107 certified pilot, and a tenured information technology and cloud industry veteran who has spent more than 25 years in the high-tech industry.

Webinar Information

Log into Webinar 9:00 - 9:30 am CDT	Break 12:40 - 1:10 pm CDT
Morning Session 9:30 am - 12:40 pm CDT	Afternoon Session 1:10 - 4:50 pm CDT

Tuition
\$319 for individual registration
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Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

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Additional Learning

- Aerial Mapping Technologies and Procedures**
- Tues, May 24, 2022 | 8:30 am - 5:00 pm CDT
- Flood-Resistant Design and Construction**
- Wed, May 25, 2022 | 11:00 am - 2:00 pm CDT
- Thurs, May 26, 2022 | 11:00 am - 3:00 pm CDT
- Soil Mechanics, Bearing Capacity and Slope Stabilization**
- Wed, May 25, 2022 | 8:30 am - 4:30 pm CDT
- Universal Residential Design**
- Wed, May 25, 2022 | 8:30 am - 4:30 pm CDT
- Residential and Small Commercial Timber Frame Design and Construction**
- Thurs, May 26, 2022 | 8:30 am - 4:30 pm CDT
- 2021 International Residential Code: Residential Building Planning**
- Wed, June 1, 2022 | 11:00 am - 3:30 pm CDT
- National Electrical Code 2020: Grounding and Bonding**
- Tues, June 7, 2022 | 8:30 am - 5:00 pm CDT
- Deep Foundations and Excavations**
- Wed, June 8, 2022 | 8:30 am - 4:30 pm CDT
- Complying with the Residential Provisions of the IECC 2021**
- Thurs, June 9, 2022 | 8:30 am - 4:30 pm CDT
- Open Channel Hydraulics and Design**
- Fri, June 10, 2022 | 8:30 am - 4:30 pm CDT
- Applying Passive Solar Design To Conventional Homes**
- Mon, July 11, 2022 | 2:30 - 4:30 pm CDT
- Complying with Fire Protection and Building Codes**
- Mon, June 13, 2022 | 8:30 am - 4:30 pm CDT
- For more information and other online learning opportunities visit:
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The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

Added Value:
Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date.
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Registration

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