

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

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 - Tuesday, May 25, 2021

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Explore uses for unmanned aircraft systems (UAS) in construction, including mapping, site reconnaissance, and improving safety.

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

Examine construction site mapping software.

Use UAS to monitor construction progress and improve quality control.

Explore UAS post-construction inspection capabilities.



HalfMoon Education Online Learning Drones in Construction

Live, Interactive Webinar - Tuesday, May 25, 2021



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 CE Hours (non-HSW)

AIA

6.5 LU | Elective

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Chuck Adams *1UP Aerial Drone Service, 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, and surveying. Mr. Adams is an FAA Part 107 certified pilot and a tenured information technology and cloud industry veteran who has spent 25 years in the high-tech industry.

Webinar Information

Log into Webinar 9:00 - 9:30 am CDT	Break 12:45 - 1:15 pm CDT
Morning Session 9:30 am - 12:45 pm CDT	Afternoon Session 1:15 - 5:00 pm CDT

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- Fri, April 23, 2021 | 10:00 am - 12:45 pm CDT
- 2021 International Residential Code: Residential Non-Structural Design**
- Fri, April 23, 2020 | 11:00 am - 3:30 pm CDT
- Deep Dive into Water Infiltration in Soil**
- Fri, April 23, 2021 | 11:00 am - 1:00 pm CDT
- New Developments in Parking Facilities**
- Mon, April 26, 2021 | 9:30 am - 4:30 pm CDT
- Passive House: Planning and Design**
- Mon, April 26, 2021 | 8:30 am - 4:00 pm CDT
- Stormwater Basins and Underground Systems**
- Mon, April 26, 2021 | 8:30 am - 4:30 pm CDT
- Deep Dive into Landscaping for Climate Change**
- Mon, April 26, 2021 | 9:00 am - 12:15 pm CDT
- Advanced HEC-RAS Modeling**
- Wed, April 28, 2021 | 10:00 am - 1:15 pm CDT
- Thurs, April 29, 2021 | 10:00 am - 1:15 pm CDT
- Construction Cost Estimating**
- Wed, April 28, 2021 | 8:30 am - 4:30 pm CDT
- Developing Infrastructure for Electric Vehicles**
- Thurs, April 29, 2021 | 9:30 am - 4:30 pm CDT
- Foundation Damage and Repair: Science, Materials and Techniques**
- Thurs, April 29, 2021 | 9:30 am - 5:00 pm CDT
- Structural Dynamics for Seismic Design**
- Fri, April 30, 2021 | 8:30 am - 3:30 pm CDT
- Handling Ethical Issues in Government Projects**
- Fri, April 30, 2021 | 12:00 - 1:00 pm CDT
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The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | Elective (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

Completion certificates will be awarded to participants who complete this event, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Registration

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