Agenda

Presented by Chuck Adams

Overview of Unmanned Aircraft Systems (UAS) in Engineering

Engineering applications for UAS

- Asset integrity visual inspections today
- Preventative Maintenance
- Mapping
- Thermal
- Monitor progress
- Decommissioning sites
- Site reconnaissance
- Improve safety, productivity & cost effectiveness
- Visual inspection technologies and digitalization

Types of UAS for visual inspections

Digital twins and 4D technology

Economics of using UAS

In-house vs. outsource UAS

UAS Regulations, Risk and Liability

Federal and state regulation of drones

FAA remote pilot certification

Liability risks

Commercial drone insurance

Automated Visual Inspection Mapping with UAS

Benefits

Visual data management and analysis Process

UAS Confined Space Tank Inspections - Maintain Safety and Quality

Monitoring construction progress

Maintaining safety

Quality control

Emissions

UAS to Conduct Periodic Structural Inspections

High-risk inspections

UAS inspection capabilities

Case studies

Artificial intelligence (AI) for change detection

Artificial Intelligence, Machine Learning Introduction for Engineering Applications

How Al increases drone efficiency

With AI, drones can learn to interpret thermal data, identify people, and assess danger zones

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Drone Applications for Engin Live, Interactive Webinar - Thursday, February 15,

Engineers

2024

HalfMoon Education Inc. PO Box 278 Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Get an overview of Unmanned Aircraft Systems (UAS) in engineering.

Explore UAS regulations, risk and liability.

Examine automated visual inspection mapping with UAS.

Discuss UAS confined space tank inspections.

Study use of UAS to conduct periodic structural inspections.

Examine how Artificial Intelligence increases drone efficiency.

HalfMoon Education Live Webinars

Drone Applications for Engineers

Live, Interactive Webinar - Thursday, February 15, 2024



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Examine how artificial Intelligence increases drone efficiency

Continuing Education Credits

Professional Engineers

6.0 PDHs (no credit for NY engineers)







Webinar Information

Log into Webinar 9:00 - 9:30 am CST

Break

12:30 - 1:15 pm CST

Morning Session

Afternoon Session

9:30 am - 12:30 pm CST

1:15 - 4:50 pm CST

Tuition

\$319 for individual registration.

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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, oil and gas, commercial real estate, land development, construction, and 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, the last eight in unmanned aircraft systems, artificial intelligence, and machine learning.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers in most states that allow this learning method. This course is not approved in New York; please refer to specific state rules to determine eligibility.

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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).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate.

Additional Learning

Adaptive Residential Use of Commercial Buildings

- Thursday, January 25, 2024 | 9:30 am - 4:25 pm CST

Cold-Formed Steel Frame Design for Small Commercial Buildings

- Thursday, January 25, 2024 | 8:30 am - 4:30 pm CST

Moisture Management and Protection Strategies for Mass Timber Buildings

- Thursday, January 25, 2024 | 12:00 - 2:00 pm CST

National Electrical Code 2023: Grounding and Bonding

- Thursday, January 25, 2024 | 8:30 am - 4:20 pm CST

Stormwater Basins: Design, Construction and Maintenance

- Thursday, January 25, 2024 | 8:30 am - 4:00 pm CST

Fire Sprinkler System Design and Installation

- Friday, January 26, 2024 | 9:00 am - 4:30 pm CST

Electrify Everything: Retrofitting Residential and Small Commercial Buildings

- Monday, January 29, 2024 | 9:00 am - 4:00 pm CST

Designing Accessible Pedestrian Facilities under ADA. IBC and PROWAG

- Tuesday, January 30, 2024 | 8:30 11:45 am CST
- Wednesday, January 31, 2024 | 8:30 am 12:15 pm CST

How to Analyze Common Construction Defects and Failures

- Wednesday, January 31, 2024 | 2:00 - 4:00 pm CST

Residential Wiring Basics under the National Electrical Code

- Wednesday, January 31, 2024 | 9:00 am - 4:00 pm CST

Current Issues in Geothermal Energy Production

- Thursday, February 1, 2024 | 8:30 am - 4:30 pm CST

Deep Foundations and Excavations

- Thursday, February 1, 2024 | 8:30 am - 5:00 pm CST

Air Barriers and Exterior Cladding

- Monday, February 5, 2024 | 9:00 am - 4:00 pm CST

Tiny House Design and Construction

- Wednesday, February 7, 2024 | 9:00 am - 5:15 pm CST

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