

# Agenda

Presented by Mark D. Jones

## Drones in Construction Day One

Thursday, September 24, 2020 | 11:00 am - 2:30 pm CDT (including a 30-min. break)

### 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

## Drones in Construction Day Two

Friday, September 25, 2020 | 11:00 am - 3:00 pm CDT (including a 30-min. break)

### 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

## Drones in Construction

Online - Thursday, Sept. 24, and Friday, Sept. 25, 2020



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

NON-PROFIT  
U.S. POSTAGE PAID  
EAU CLAIRE, WI  
PERMIT NO. 2016

## Learning Objectives

### You'll be able to:

**Describe** applications for unmanned aircraft systems (UAS) or drones in construction, including site mapping, site reconnaissance, work progress monitoring, and maintenance of safety procedures.

**Reference** federal and state regulation of drones, discuss FAA remote pilot certification, review risks associated with drone usage, and explore commercial drone insurance.

**Review** software and procedures for construction site mapping, and discuss the use of UAS to maintain quality control for ongoing projects.

**Use** drones to conduct post-construction inspections, especially in cases that pose high risk to inspection officials.



Find us on  
Facebook

# HalfMoon Education Online Learning Drones in Construction

Live, Interactive Webinar Series

Thursday, September 24, and Friday, September 25, 2020



**Use** drones for mapping, site reconnaissance, and work progress monitoring

**Understand** and comply with federal unmanned aircraft regulations

**Identify** potential liability risks

**Comply** with federal regulations

**Conduct** periodic inspections and high-risk inspections

### Continuing Education Credits

#### Professional Engineers

6.5 PDHs

#### Architects

6.5 CE Hours

#### AIA

6.5 LU|Elective



HalfMoon Education Inc.  
WWW.HALFMOONSEMINARS.ORG

AIA  
Continuing  
Education  
Provider

# Faculty

**Mark D. Jones** *Principal, Hartech Engineering & Consulting, LLC*

Mr. Jones, PE, is president of Hartech Engineering which was founded in 2007 as a multi-discipline civil engineering consulting firm providing infrastructure, development and municipal design services for the public and private sectors. Bringing over 30 years of engineering expertise along with specific state-of-the-art, computer-aided technology to achieve efficient, cost saving design solutions, he also provides hydrology and hydraulic studies and reports along with general civil engineering support for prime consultants to PennDOT or local municipality projects. Mr. Jones is a licensed pilot and studied Military Civil Engineering while serving in the USAF and continues his Masters education locally through Penn State. Additionally, he is also a registered professional engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.

# Webinar Information

## Day One: Thursday, September 24, 2020

11:00 am - 2:30 pm CDT (including a 30-min. break)

## Day Two: Friday, September 25, 2020

11:00 am - 3:00 pm CDT (including a 30-min. break)

*(please log into the webinar 15 - 30 minutes before start time)*

### Tuition

**\$299** for individual registration

**\$199** for three or more registrants from the same company at the same time.

**Included with your registration:** PDF seminar manual.

### How to Register

- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit [www.gotowebinar.com](http://www.gotowebinar.com).

**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.

# Additional Learning

## Current Issues in Sustainable Site Design Erosion and Sediment Control

- Mon., Sept. 14, 2020 | 11:00 am - 1:00 pm CDT
- Tues. Sept. 15, 2020 | 11:00 am - 1:00 pm CDT

- Wed., Sept. 16, 2020 | 11:00 am - 2:00 pm CDT
- Thurs., Sept. 17, 2020, 11:00 am - 2:00 pm CDT

## Stormwater Basins and Underground Systems

- Mon., Sept. 14, 2020 | 12:00 - 4:00 pm CDT
- Tues. Sept. 15, 2020 | 12:00 - 3:30 pm CDT

## International Building Code

- Wed., Sept. 16, 2020 | 10:00 am - 2:00 pm CDT
- Thurs., Sept. 17, 2020 | 10:00 am - 2:00 pm CDT

## Wastewater Collection and Treatment System Design

- Mon., Sept. 14, 2020 | 10:00 am - 1:30 pm CDT
- Tues. Sept. 15, 2020 | 10:00 am - 1:30 pm CDT

## Complying with Fire Protection and Building Codes

- Mon., Sept. 21, 2020 | 8:00 - 11:35 am CDT
- Tues., Sept. 22, 2020 | 8:00 am - 12:05 pm CDT

## Small Commercial Solar Photovoltaic Energy Systems

- Tues., Sept. 15, 2020 | 8:30 am - 3:50 pm CDT

## Designing for Accessibility under ADA Standards and IBC

- Tues., Sept. 22, 2020 | 8:30 am - 4:30 pm CDT

For more information and other online learning opportunities visit: [www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

## Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers and 6.5 continuing education hours to architects (not HSW) in all states.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (S-0130), and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

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 prompts during the presentation, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

### Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

# Registration

## Drones in Construction

Live, Interactive Webinar - Thursday, September 24, and Friday, September 25, 2020

How to Register		Registrant Information	
<b>Online:</b> <a href="http://www.halfmoonseminars.org">www.halfmoonseminars.org</a>		Name: _____	
<b>Phone:</b> 715-835-5900		Company/Firm: _____	
<b>Fax:</b> 715-835-6066	<b>Code:</b>	Address: _____	
<b>Mail:</b> HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		City: _____ State: _____ Zip: _____	
<b>Complete the entire form.</b> Attach duplicates if necessary.		Occupation: _____	
		Email: _____	
		Phone: _____	
		<b>Additional Registrants:</b>	
		Name: _____	
		Occupation: _____	
		Email: _____	
		Phone: _____	
		Name: _____	
		Occupation: _____	
		Email: _____	
		Phone: _____	
		Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.	
		( )  I need special accommodations. Please contact me.	

## Tuition

( ) **I will be attending the live webinar.** Single Registrant - **\$299.00**. Three or more registrants from the same company registering at the same time - **\$199.00** each.

( ) **I am not attending.** Please send me the webinar recording:

- Streamable MP4 Video/PDF Manual for **\$279.00**.
- USB Video/PDF Manual for **\$279.00**.

**Checks:** Make payable to HalfMoon Education Inc.

**Credit Card:** Mastercard, Visa, American Express, or Discover

Credit Card Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_ CVV2 Code: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_

Billing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Signature: \_\_\_\_\_

Email: \_\_\_\_\_