

Agenda

Overview of Aerial Mapping Technologies *B. Vander Jagt*

Manned aircraft vs. unmanned aircraft systems (UAS)
UAS platforms: fixed wing and rotorcraft
UAS photogrammetry
UAS LiDAR

Photogrammetry for Historic Preservation *J. Davis*

UAS based photogrammetry has proven to be a great technique to document historic buildings by creating high-resolution models that can be used for rehabilitation or basic documentation.
The ability to cover large areas relatively quickly with a UAS to create high-resolution topography models using photogrammetry has revealed new insights into some of Ohio’s most famous archaeological sites.

Mapping Using UAS *V. Brewer*

Software set-up
Preflight planning
Flight operations and considerations
Post-processing

UAS Data-Processing Software *B. Vander Jagt*

Pix4D	DroneDeploy
Autodesk	Agisoft
Others	

Photogrammetry Demonstration/Case Study *B. Vander Jagt*

Software demonstration
Working with control points
Deliverables

Can’t Attend? Order the Manual and the Audio from the Live Seminar as a Self-Study Package!

An audio recording of this seminar is available for \$289. Allow four weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Aerial Mapping Technologies and Procedures
Columbus, OH - Thursday, February 14, 2019



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

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Learning Objectives

You’ll be able to:

Explore unmanned aircraft system (UAS) platforms.

Understand how to use UAS-based photogrammetry to cover large areas and create high-resolution topography models.

Learn about using UAS photogrammetry for preservation of historic buildings.

Talk about mapping operations, including preflight planning and post-processing.

Discuss data processing software, including Pix4D, DroneDeploy, Autodesk, Agisoft and others.



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Understand aerial mapping technologies

Identify how to use photogrammetry for historic preservation

Learn about creating high-resolution topographical models

Discuss preflight planning, and post-processing

Examine unmanned aircraft system data-processing software

Explore case studies

Continuing Education Credits

Ohio Land Surveyors & Engineers
6.0 PDHs





Ben Vander Jagt, PhD *President & Co-Founder of PixElement*
Mr. Vander Jagt received a B.S. degree in Surveying from FSU, an M.S. degree in Photogrammetry from Purdue, and a Ph.D degree in Geodetic Science from the Ohio State University.
Mr. Vander Jagt’s subject matter expertise and deep familiarity with target markets guides the product roadmap. When not making 3D maps for construction, engineering, and surveying, you can find him wandering about with a 2D map in hand, trying to find a new fishing spot.

Jamie Davis *UAS Pilot and Archeologist with Ohio Valley Archaeology, Inc.*
Mr. Davis has been employed at Ohio Valley Archaeology, Inc., since 2010 and has worked as a professional archaeologist since 2009. He earned his BA degree in Anthropology in 2002 and Mathematics in 2006 from Ohio University. He has also earned a Geographic Information Systems (GIS) master’s certificate from Penn State University in 2011. Mr. Davis is an FAA Unmanned Aerial Systems (UAS) certified pilot and has been performing UAS-based photogrammetry since 2015. Some of his photogrammetry models include Serpent Mound, the Newark Octagon complex, the World Heritage Site Sutton Hoo located in England, and the United States Battle Monument’s Corozal Cemetery located in Panama.

Victor Brewer *Owner/Operator of Aerial Image Solutions*
Mr. Brewer is an owner/operator of Aerial Image Solutions, a company that utilizes cutting edge equipment to stay on the forefront of drone technology, photography, and cinematography. Aerial Image Solutions specializes in low-altitude, high-resolution aerial photography services. Mr. Brewer and Aerial Image Solutions utilize customized unmanned drone aircraft as their camera platforms and strive to stay on top of the latest drones to provide the best aerial platforms for capturing stunningly clear, high-resolution video, photo, panoramas, and orbits.

Seminar Information

Crowne Plaza Columbus North - Worthington
6500 Doubletree Avenue
Columbus, OH 43229
(614) 885-1885

Tuition
\$279 for individual registration
\$259 for three or more registrants from the same company at the same time.
Included with your registration: Complimentary continental breakfast and printed seminar manual.

Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

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

Continuing Education Credit Information

This seminar is open to the public. It offers 6.0 PDHs to Ohio professional land surveyors and professional engineers to whom the subject matter is professionally relevant. Educators and courses are not subject to preapproval in Ohio.

HalfMoon Education is an approved continuing education sponsor for professional land surveyors and engineers in Indiana (License No. CE21700059), Maryland, New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is also an approved education provider for Florida and New Jersey engineers (Approval No. 24GP00000700).

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

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Additional Learning

Webinar Series

Commercial Solar Peaker Batteries
• **Commercial Solar Peaker Batteries, Part I**
Wed., Jan. 9, 2019, 11:00 AM - 3:15 PM CST
• **Commercial Solar Peaker Batteries, Part II**
Thurs., Jan. 10, 2019, 11:00 AM - 2:15 PM CST

Technical Writing
• **Technical Writing Basics**
Mon., Jan. 14, 2019, 11:00 AM - 1:00 PM CST
• **Planning Documents**
Mon., Jan. 14, 2019, 1:30 - 3:30 PM CST
• **Writing Documents**
Tues., Jan. 15, 2019, 11:00 AM - 1:00 PM CST
• **Revising and Editing Documents**
Tues., Jan. 15, 2019, 1:30 - 3:30 PM CST

Fiber-Reinforced Composites
• **Portland Cement and Masonry**
Thurs., Jan. 17, 2019, 11:00 AM - 1:00 PM CST
• **Fiber-Reinforced Composites**
Thurs., Jan. 17, 2019, 1:30 - 3:30 PM CST
• **Fiber-Reinforced Polymer (FRP) Composites Reinforcement**
Fri., Jan. 18, 2019, 11:00 AM - 1:00 PM CST
• **Overview of Sandwich Materials and Structures**
Fri., Jan. 18, 2019, 1:30 - 3:30 PM CST

For more information visit:
www.halfmoonseminars.org/webinars/

Registration

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How to Register	Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ 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.
Online: www.halfmoonseminars.org	
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Complete the entire form. Attach duplicates if necessary.	

Tuition
() **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.
() **I am not attending.** Please send me the self-study package for **\$289.00**.
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