



AN **MFS** COMPANY



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**Puzzle** Answer Due by Midnight on Friday,  
May 6, 2022

## *GEOD Provides*

Aerial Photography /  
Photogrammetric & LIDAR Mapping

Land Surveying

Laser Scanning

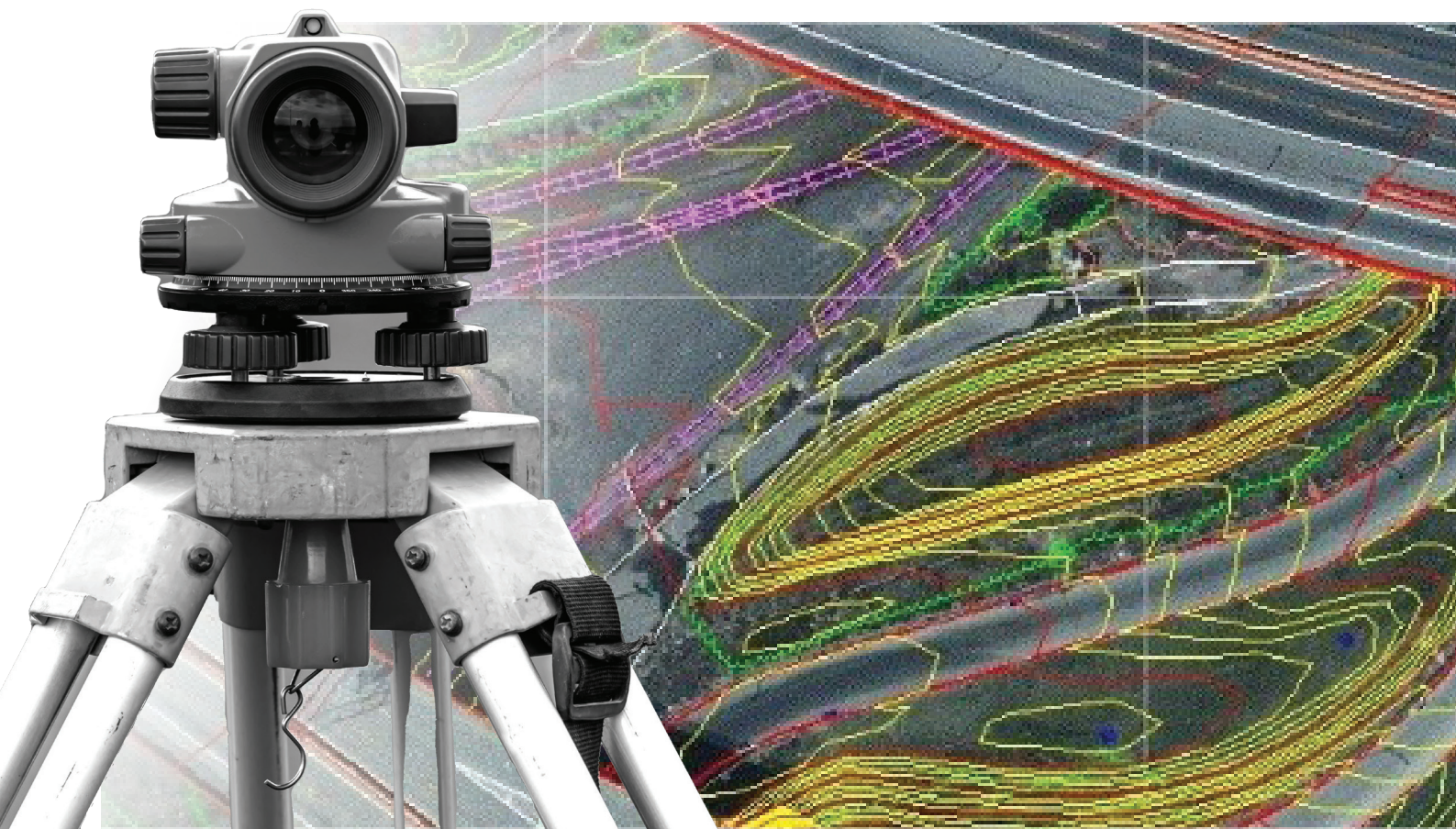
Subsurface Utility Markouts

Drone Surveying



## WHAT'S NEW?

## In-house Stereo Compiler Training Program



In simple terms, photogrammetric mapping relies on extracting precise measurements of physical objects and the environment from aerial and terrestrial photographs to create 3D models. It's a specialized engineering discipline that has been used in the A/E business for decades.

But what you may not know is that industry wide, photogrammetry is being impacted by a highly skilled but aging workforce. In other words, many trained professionals who compile planimetric and topographic features are approaching or are at retirement age. At the same time, there are fewer young adults who have acquired the necessary skills, instead opting for more general GIS career paths.

To help avoid a future resource challenge, GEOD Corporation has implemented an in-house stereo compiler training pilot program. Current trainees are CAD technicians working at the San Juan, Puerto Rico, office of our parent company.

Stereo compilation is a complex and detail-oriented discipline that also requires specific acuity, such as the ability to see very accurately in 3D. Our plan over time is to train the right candidates and grow their skills in-house so that they're experienced and ready to fill vacancies in our photogrammetry team as needs arise, as well as give GEOD the capability to temporarily increase capacity on an as-needed basis as project backlogs dictate.





## PROJECT MANAGER SPOTLIGHT



### Gerard “Gerry” Gouldson

*“I look forward to coming in each day because of the great people I get to work with.”*  
— Gerry Gouldson

Gerard “Gerry” Gouldson is the definition of the word *longevity*. He’s been with GEOD Corp. since 1987—a total of 35 years.

If an organization has utilized GEOD for any project requiring aerial photogrammetry, Gouldson has likely handled it or overseen it. As manager of the firm’s Photogrammetry Department, he does everything from assessing project scope and preparing estimates to supervising end-to-end tactical components such as drawing flight maps, selecting photo control points, and performing triangulation and stereo compilation.

If you’ve ever met Gouldson, you no doubt picked up on his Irish accent. Gouldson began his career as a military cartographer in the Irish Army Corps of Engineers in the early 1980s before immigrating to the United States through its Diversity Immigrant Visa program, also known as the “green card lottery,” in 1987. Soon after his arrival, he went to work for GEOD as a photogrammetry technician and hasn’t looked back. Gouldson was promoted to manager of the Photogrammetry Department in 1991.

Gouldson clearly enjoys his career, including the technical aspects of the job, the variety of projects he manages, and the people he works with daily. Like him, many of his co-workers have been at GEOD for years.

“I look forward to coming in each day because of the great people I get to work with,” Gouldson explains. “We also have longstanding relationships with the organizations we do work for—many are repeat clients that come back to us for all their mapping needs because they’re comfortable with us and confident in our quality of work. They know they’ll get a good product from us.”

Outside of work, Gouldson particularly enjoys what is known as geocaching, an outdoor activity in which participants use a mobile GPS receiver or smartphone with GPS to seek containers or “geocaches” and hide them for others. Players use their GPS to navigate to



## SPOTLIGHT *CONTINUED*

where the geocache is located, then sign and date the log inside it as proof they were there. It's a lot like treasure hunting or scavenger hunting.

Geocaching takes place around the world and often leads to participants exploring places they might not otherwise visit. Most recently, the activity took Gouldson and his wife to Long Island, where they hunted for geocaches among the area's historic lighthouses.

"It can be a bit of a competition—like how many caches have you found?" Gouldson says. "Sure, it might be a bit nerdy but it's fun, you're out in the fresh air, and we've met some really nice people because of it."

Gouldson is an ASPRS Certified Photogrammetrist and a Licensed Surveyor Photogrammetrist in Virginia. He is a graduate of Technological University Dublin.



### Before Things Green Up

# LET'S GET *Flying*



Aerial survey is faster and more cost effective before spring brings new growth to trees. This means now is the time to schedule your photographic coverage while visibility is still a plus.

*Call GEOD at **973-697-2122** to discuss your aerial photogrammetric needs today!*





## FROM THE FIELD

### Alphawave Golf (Inrange Golf)

The Golf Range in Branchburg, NJ, and Big Swing Golf Center in Sewell, NJ

GEOD client Alphawave Golf had entered a partnership with both The Golf Range in Branchburg, N.J., and Big Swing Golf Center in Sewell, N.J., to implement the client's Inrange® Golf swing analysis system. Inrange uses state-of-the-art radars to geolocate the exact position of the ball hundreds of times throughout its flight, calculating carry distance and other data and instantly relaying it to the player's in-bay touchscreen or smartphone.

GEOD was tasked with taking high-res, drone-based imagery to develop orthophotography and an accurate Digital Terrain Model of the range property to support the system design; precisely surveying the 36 hitting-bay details and features; staking out proposed locations for radar sensors; and post construction, surveying the four corners of each radar sensor for location/elevation.

The final data was used by the client to enable the Inrange software to achieve the promised accuracies for end users.







## FROM THE FIELD

### Six Proposed Solar Farm Sites, Saturn Power

Upstate New York

GEOD performed photogrammetric surveys, economically and quickly, for multiple proposed solar farm sites for Saturn Power across Upstate New York. GEOD's UAV specialist visited each site, laid out and GPS-surveyed temporary targets, and then deployed a drone to acquire the imagery at 80% forward and side overlap. Our specialist then downloaded imagery and, using Pix4D software, ortho-rectified it at a 2" pixel to create a Digital Stereo Model from which 1' contours were generated. Planimetric features were digitized and exported to AutoCAD. The final deliverables included an XML surface, Orthos in ECW format and plan data in a .DWG file. GEOD's specialist processed and delivered two sites per day.





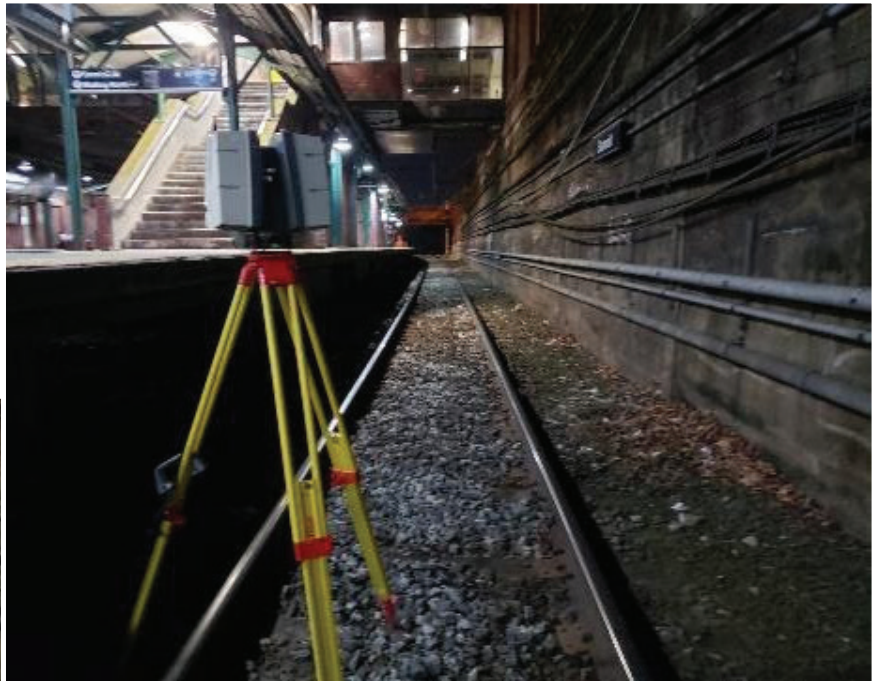


## FROM THE FIELD

### Summit Train Station, NJ Transit

Summit, NJ

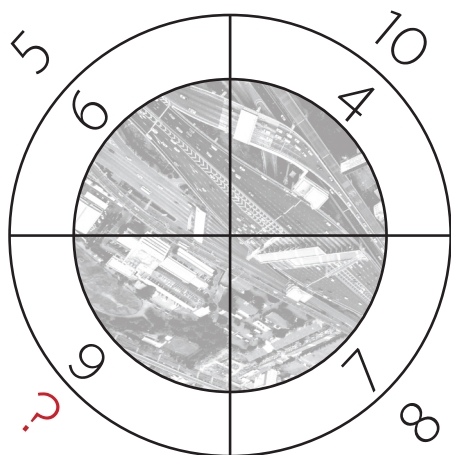
GEOD provided survey services for the Summit Train Station in Summit, NJ. Project scope included wall location and wall features face to top as well as related features surrounding the wall that could cause construction issues. GEOD utilized GPS, terrestrial scanning, and conventional robotic total station location work.



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## SPRING PUZZLE

Here we have another nice image-based puzzle. Simply deduce the numerical value of the magenta question mark. A careful perusal of the numbers should reveal a pattern that will then enable a quick solve.



Email your answer to [marketing@geodcorp.com](mailto:marketing@geodcorp.com) by midnight on Friday, May 6, 2022.

A random winner will be drawn from the correct entries who will receive a \$200 Amazon gift card. As always, if you are precluded from accepting such a prize, we'll be delighted to donate a check for \$200 to the charity of your choice.

**Enjoy the puzzle and good luck! Of course, the decision of the judges is final!**

Visit [www.geodcorp.com](http://www.geodcorp.com) for the winner & solution to the puzzle