

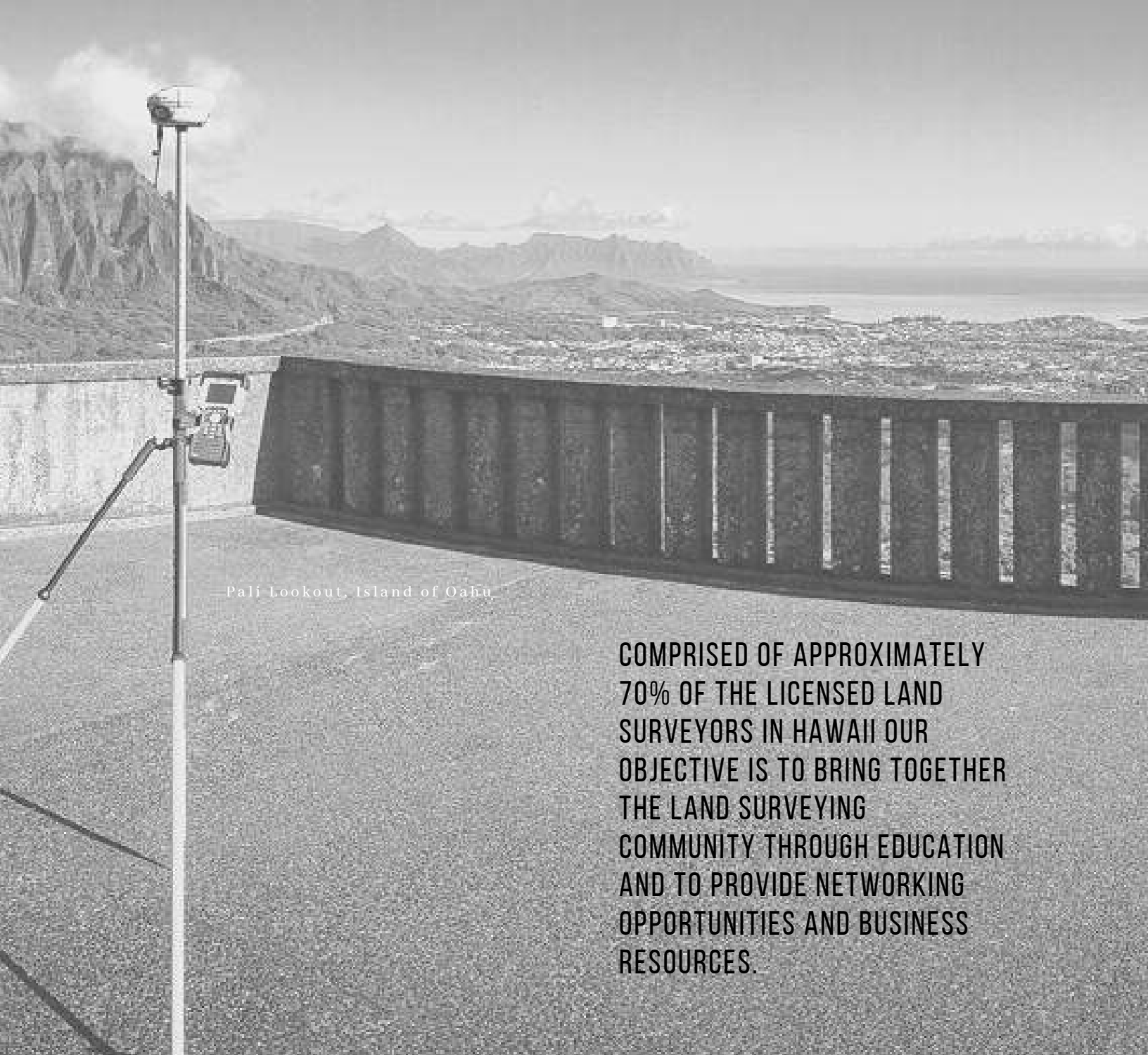


# LAE | LAE

## POINT TO POINT

Lae I Lae, a newsletter from the **Hawaii Land Surveyors Association**, an affiliate and a member with the National Society of Professional Surveyors

EMAIL: [hlsa-hawaii@outlook.com](mailto:hlsa-hawaii@outlook.com) WEBSITE: [www.hlsahawaii.org](http://www.hlsahawaii.org)



Pali Lookout, Island of Oahu

COMPRISED OF APPROXIMATELY 70% OF THE LICENSED LAND SURVEYORS IN HAWAII OUR OBJECTIVE IS TO BRING TOGETHER THE LAND SURVEYING COMMUNITY THROUGH EDUCATION AND TO PROVIDE NETWORKING OPPORTUNITIES AND BUSINESS RESOURCES.





# PRESIDENT'S MESSAGE

BY CHRISTINA VILLA

Recently HB244, HD 1 SSCR1229 relating to Land Recordation passed out the Committee on Ways and Means and the Committee on Judiciary. Thank you to everyone who quickly submitted testimony in favor of the bill. **We are very grateful of your support.** We will keep you updated on the next step as we move closer to the finish line. If you would like more information about HB 244 or know how you can support the bill, feel free to email us at [hlsa-hawaii@outlook.com](mailto:hlsa-hawaii@outlook.com). We would be happy to put you on our email list.

NSPS 'Day on the Hill' went virtual this year. The voices of the surveying profession was heard in Congress as our NSPS members visited with the members of their Congressional delegations. More than 80 NSPS members from 40 states visited more than 150 members of the U.S. Senate and House of Representatives and their staff to discuss the role of the surveying profession in legislation pending before the 117th Congress.

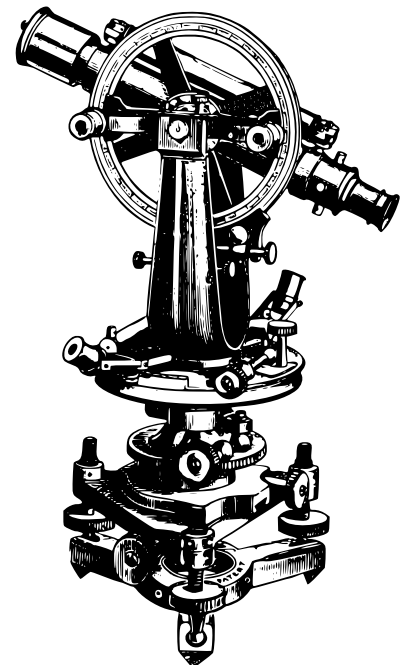
HLSA continues to be represented in the Western States Directors Council of NSPS, and in WFPS, the Western Federation of Professional Surveyors aka "Westfed", an independent association of surveyors of the 13 western States.

Just a reminder, if you did not renew your **2021 HLSA memberships**, please do so on our website <http://www.hlsahawaii.org/membership/>

Becoming a member of HLSA has great benefits to attend workshops this year at a discounted member rate or sometimes free of charge. You will also receive a friendly bi-monthly newsletter to keep you updated on upcoming events. Your membership is valid for one calendar year, January 1st to December 31st.

Take care of yourself and your loved ones. Always check in on one another.

Sincerely,  
Christina Villa  
2021 HLSA President





# EMPLOYMENT OPPORTUNITIES



## HAWAII ENGINEERING GROUP, INC.

Hawaii Engineering Group, Inc. is a full-service civil, structural and electrical consulting engineering and land surveying firm that specializes in commercial, industrial and residential projects. With over 25 years of experience in the industry, we recognize that we are only as successful as the people we employ.

### LICENSED LAND SURVEYOR (HONOLULU):

SEEKING A LICENSED LAND SURVEYOR (STATE OF HAWAII) WITH A MINIMUM OF TEN (10) YEARS OF EXPERIENCE WITH LICENSE. IF CANDIDATE HAS OUT OF STATE LICENSES MUST BE ABLE TO OBTAIN HAWAII STATE LICENSE. CANDIDATE SHOULD HAVE LICENSE TO PRACTICE IN THE LAND COURT. CANDIDATE MUST HAVE EXPERIENCE WITH LAND COURT MAPS, FILE PLAN MAPS, CONSTRUCTION SURVEYING, ALTA SURVEYS, BOUNDARY SURVEYS AND ABLE TO SUPERVISE AND MANAGE SURVEY FIELD CREWS AND OFFICE STAFF. PLEASE EMAIL [HEGADMIN@HAWAIIENGINEERING.NET](mailto:HEGADMIN@HAWAIIENGINEERING.NET).

### SURVEY PARTY CHIEF (HONOLULU):

HAWAII ENGINEERING GROUP, INC. IS LOOKING FOR A SURVEY PARTY CHIEF FOR A LONG-TERM FULL-TIME POSITION.

- PERSON MUST BE DEPENDABLE, HAVE A DRIVER'S LICENSE, BE A U.S. CITIZEN, HAVE NO FELONY CONVICTIONS AND BE ABLE TO TRAVEL.
- EXPERIENCE MUST INCLUDE 5 YEARS FIELD WORK EXPERIENCE IN ALTA, TOPOGRAPHIC, BOUNDARY AND CONSTRUCTION SURVEYS. AUTOCAD AND TDS DATA COLLECTOR EXPERIENCE A PLUS. MUST HAVE EXPERIENCE AS A PARTY CHIEF.
- SEND RESUME TO: [HEGADMIN@HAWAIIENGINEERING.NET](mailto:HEGADMIN@HAWAIIENGINEERING.NET)
- SALARY: NEGOTIABLE WITH EXPERIENCE
- BENEFITS: MEDICAL, 401K, PROFIT SHARING, PAID VACATION & SICK LEAVE

# PODCAST



Please check out Mentoring Mondays for informational presentations to help build our knowledge in this profession.

[WWW.MENTORINGMONDAYS.XYZ](http://WWW.MENTORINGMONDAYS.XYZ)

# Carlson Software Workshops

Join us in this series of Carlson Software workshops and learn about the practical survey tools found in Carlson Survey in the Carlson Survey Fundamentals workshop. Learn about the Carlson's photogrammetry tools and how to convert the resulting point cloud into a surface model during the second workshop. And, learn the basics of setup, instrument configuration and basic functionality in Carlson's field software SurvCE|SurvPC.

**This series of free workshops will be held virtually on:**

**Saturday, May 8 – 12:00-1:30 pm: Carlson Survey Fundamentals**

**Saturday, May 15 – 12:00-1:30 pm: Photogrammetry to CAD Workflow**

**Saturday, May 22 – 12:00-1:30 pm: SurvCE|SurvPC Fundamentals**

**Attend these workshops and ask about the special pricing on Carlson Hardware & Software.**

**Luis Rojas – Carlson Regional Director**  
**859-568-8429 ■ [lrojas@carlsonsw.com](mailto:lrojas@carlsonsw.com)**



## New from Stonex!

### S990A GNSS Receiver



#### POSITIONING ACCURACY

Down to 2.5 mm horizontal

Down to 3.5 mm vertical

#### TILT RANGE

Up to 60°

#### TILT ACCURACY

2 cm @ 30°

5 cm @ 60°

#### SIGNAL TRACKING

GPS, GLONASS, BEIDOU, GALILEO, QZSS, IRNSS,  
SBAS

#### COMMUNICATIONS

Bluetooth, Wi-Fi, UHF Radio, 4G Modem

#### LOCAL SUPPORT

Included at no additional cost

#### FULL PACKAGE

Includes all accessories, support and training

S990A GNSS Rover Package **\$11,900**

S990A GNSS Base & Rover Package **\$17,900**

## New from GeoMax!

### Zoom 10 Manual Total Station



#### ANGLE MEASUREMENT

2" Accuracy

#### LASER PLUMMET

1 mm @ 1.5 m

#### LOCAL SUPPORT

Included at no additional cost

#### CALIBRATED LOCALLY

At Surveyors Supply Co.

## X-Pad Ultimate Data Collection Software

#### OPERATING SYSTEM

Android

#### MODULES

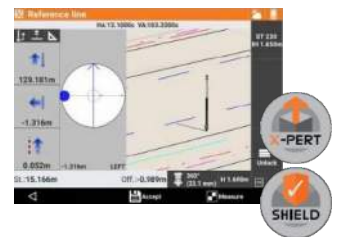
GNSS, TPS, Robotic,

X-Pole, BIM, MEP,

& more

#### INCLUDED SERVICES

SHIELD, X-PERT (1 year)



Zoom 10 Manual Total Station **\$4,600**

X-Pad Ultimate Data Collection Software **\$1,190**

(808) 676-7944

sales@surveyorshawaii.com

www.surveyorshawaii.com

94-356 Uke'e St Ste A, Waipahu, HI 96797

Frontier Precision helps you re-imagine what's possible. Welcome to the Trimble R12i GNSS System. Its Trimble ProPoint™ RTK positioning engine and Trimble TIP™ tilt compensation technology allows you to measure or stake out points faster and in more places, without ever having to level the survey pole. Even on sites that were once inaccessible — like the edge of an open excavation or around building corners. Make the move to being even more productive. To get started, visit: [www.frontierprecision.com/trimble-r12i](http://www.frontierprecision.com/trimble-r12i).



**Want more information? Contact:**

Brennan O'Neill | Geospatial Sales Representative  
[brennan@frontierprecision.com](mailto:brennan@frontierprecision.com)  
808.465.3900 | 808.824.0336 Direct / Cell

**THE WORKSITE IS RARELY ON YOUR SIDE.  
THE FIELD IS NOW TILTED IN YOUR FAVOR.**



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Honolulu, HI 96819





**Surveyors,  
Contractors,  
& Drafting  
Supplies**

**Instrument  
Rental & Repair**

*"With recent changes of Trimble's distribution in the Pacific region, Hubs Hawaii Inc. would like to announce our new Trimble relationship with Frontier Precision Inc. to provide the best customer experience when purchasing Trimble equipment in Hawaii."*

*"Hubs Hawaii Inc. is a locally owned and operated company since 1987 and will continue to serve the state of Hawaii with surveying equipment, supplies, accessories, rentals, and repairs."*



**Hubs Hawaii Inc.**

85 Po'okela Street  
Hilo, HI 96720

**Phone: (808) 961-3223**

Email: [hubs1@hawaiiantel.net](mailto:hubs1@hawaiiantel.net)

Website: [www.hubshawaii.com](http://www.hubshawaii.com)

*The Spectra Geospatial®SP85 is a next generation GNSS receiver that combines decades of GNSS RTK technology with revolutionary new GNSS processing. Featuring the new 600-channel "7G" chipset combined with the patented Z-Blade™ technology, the SP85 system is optimized for tracking and processing signals from all GNSS constellations in challenging environments.*



## Technology

Unmanned Aerial Systems (UAS) cover larger areas in less time than traditional ground surveying—saving costs on surveys up to 300 acres.



### How does it work?

Automated flight software on our UAS makes all the difference. The mission area is programmed into a mapping interface that calculates how the UAS should fly to collect the area of information needed. This route is uploaded to the UAS which flies the entire mission in a fully automated pattern—flying, capturing images, and landing all on its own.

### What can it do?

The UAS platform carries a sensor, determining the required sensor to capture the data is key. From an RGB camera to infrared, multispectral, gas, and thermal sensors, UAS captures everything from high resolution oblique imagery or HD video to leak and heat detection. With new sensors hitting the market, more doors are opening for new data collection methods.



## Design with community in mind

We're active members of the communities we serve. That's why at Stantec, we always design with community in mind.

The Stantec community unites approximately 22,000 employees working in more than 400 locations across six continents. Our work—from initial project concept and planning through design, construction, and commissioning—begins at the intersection of community, creativity, and client relationships. With long-term commitment to the people and places we serve, Stantec has the unique ability to connect to projects on a personal level and advance the quality of life in communities across the globe. Visit us at [stantec.com](http://stantec.com) or contact us below for your Unmanned Aerial System (UAS) Survey needs.

**Victor Rasgado, LPLS**  
**(808) 208-2837**

[victor.rasgado@stantec.com](mailto:victor.rasgado@stantec.com)  
UAS remote pilot certified (Part 107)

**Brett Etheredge, LPLS**  
**(808) 348-7664**

[brett.etheredge@stantec.com](mailto:brett.etheredge@stantec.com)  
UAS remote pilot certified (Part 107)



## Geomatics takes flight

Unmanned Aerial System (UAS)



## Capabilities

Collecting data is our specialty. We have the right tools to deliver accurate information.

In addition to UAS, our arsenal includes levels, total stations, GPS, and laser scanning. Next up is integrating UAS on project sites like landfills, gravel pits, plant sites, or even undeveloped land to deliver high resolution imagery and topographic data.

### Our UAS capabilities include:

- High resolution orthomosaics/ortho photography
- Classified point clouds
- Digital surface models (DSM)
- Digital terrain models (DTM)
- Contours
- GIS data
- Photo stills
- HD Videos
- 3D point cloud data

## Benefits

UAS keeps us safe while collecting data in remote locations.

When we're inspecting the underside of a bridge or the top of a building, not only can the task be difficult and costly—it comes with some risks. By deploying a UAS, we can assess a structure or project site's condition remotely and without the need for scaffolding, cranes, or harnesses.

### Our UAS benefits include:

- Safety
- 3D Modeling over a large area
- Access to remote areas
- High resolution photography
- Integration with ground laser scanning
- Integration with ground photography
- Multiple data format exports
- Quick response time
- Cost savings

### Drones aren't for everyone

FAA Part 107 guidelines and restrictions govern commercial UAS operations in the United States. These restrictions identify where commercial UAS flights can legally operate, at what height, and for what distance. We've got California, Hawaii, and the Western States covered with pilots certified to legally operate UAS for commercial use.

## Applications

The sky's the limit with UAS! This technology isn't just for one type of industry, it can be utilized for a variety of sectors and uses.



With the same amount of field time, we capture roughly 1000 times more data points than traditional survey methods.



## 2021 SUSTAINING MEMBERS

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