



# 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

## Aloha HLSA members!

Have you been keeping up with your new year's resolution? Obviously, I have not, but here is our winter newsletter, just on Hawaiian time! I may have been on holiday mode before it started but I bet you were as happy as me to get through those end of the year projects. Now we are well into the year of the Tiger! The 2022 year of the **water tiger** is said to promise a year of positive changes. I wish every one of you the very best in all your endeavors and with many **blessings to your success, health and happiness.**

With the rapid changes of the COVID-19 pandemic, introductions of new variants and the complications they impose, including not knowing when infections may peak, we are still set to have our first virtual conference this year in April. We are fine tuning the program and are aware that it is crunch time for the board of directors. If you are interested in participating as a guest speaker or vendor, please contact us as soon as possible to secure a spot! You can reach us at [hlsa-hawaii@outlook.com](mailto:hlsa-hawaii@outlook.com). Once our date is finalized with our consultant, we will send out an email blast to our members and update our website.

Preparing for our first virtual conference has been the board's focus right now, it is not easy as we thought it would be! With every conference we have held in the past, there were always bumps in the road, but in the end, we are always full of thanks in the success of the turnouts and the benefits of what networking can do. Your patience with the board at this time is appreciated, as we are all putting in our best effort to make this happen for our wonderful members and dedicated surveying community.

We are pressing on **virtual educational workshops** throughout the year as learning never stops! Our first one is the **2021 ALTA Standards Update presented by Matthew Vernon on January 22, 2022, at 9:00 AM (HST)**. The workshop is *free* to everyone, and you may register in advance at this link:

<https://us02web.zoom.us/meeting/register/tZYtd0-hqzoqEtUGcagKrKlr4q-1-0NGX6ZU>

After registering, you will receive a confirmation email containing information about joining the meeting. This is a very informative workshop and I am encouraging all of you to attend. Matt Vernon has been sharing his expertise to our Hawaii surveying community for many years and we are so thankful he has graciously volunteered to host this valuable workshop for us.

**Looking to add certifications under your belt?** College of the Canyons Land Surveying Department is now offering a [GNSS Certificate Program](#). There are (8) eight courses in the certificate and each course is 16-hours. If you are a California resident, the classes are FREE! Non-residents will need pay to \$94 per course. You are able to complete the courses from the comfort of your home using Zoom and Canvas. The first course starts January 18, 2022 and you may enroll at this link:

<https://www.canyons.edu/student-services/enrollment-services/free-classes/>

Instructions and more information can be found on the flyer in this newsletter.



# PRESIDENT'S MESSAGE

BY CHRISTINA VILLA

Our legislative committee are still reviewing potential bills we would like to tackle for the betterment of our profession. To get a bill rolling we need to have adequate research done before drafting the legislation. There are still three legislative items that are on our list: (1) Statute of Repose for Professional Surveying; (2) Challenges to Professional Licensure; and (3) Right of Entry Law for Surveyors. As we discuss what to tackle first and the best approach, we will keep you updated through the year.

As we start 2022, I would like to thank all our Hawaii Land Surveyors Association members for their continued support, interest, and keeping up our presence in the community. I would also like to thank our board of directors for their continuous hard work and most importantly, their time, to make the magic of collaboration happen!

**Our membership is open for the calendar year of 2022.** Please visit our website or visit this link provided to renew your membership: <http://www.hlsahawaii.org/membership/>

Becoming a member provides you with resources, such as educational workshops and events at a discounted member rate or at times for free, as well as a bi-monthly newsletter to keep you in the loop of our profession in Hawaii. As a sustaining member you are also entitled to a discounted member rate to educational workshops and events for up to two members, as well, and free advertisement in our newsletter!

*As always, please stay vigilant in your health and happiness.*

Sincerely,  
Christina Villa  
2021 HLSA President

. H A P P Y .  
New Year



# 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

## **Aerial Surveying, Inc.**

Currently looking to fill the following position:

### **SURVEY FIELD TECHNICIAN**

- Drone Pilots License required or willing to obtain one.
- Experience in GPS and field data collection required
- Willing to Travel
- Salary determined by experience

Send resume to **[tom@surveyhawaii.com](mailto:tom@surveyhawaii.com)**



# EMPLOYMENT OPPORTUNITIES



## **WES THOMAS ASSOCIATES**

*-Land Surveyors-*

75-5749 Kalawa Street, Suite 201, Kailua-Kona, Hawaii 96740

Phone: 808.329.2353 - Fax: 808.329.5334

[surveys@wtahawaii.com](mailto:surveys@wtahawaii.com) - [www.wtahawaii.com](http://www.wtahawaii.com)

*Wes Thomas Associates has been surveying in Hawai'i since 1975. This has allowed us the luxury of dedicating our staff, equipment, and facilities to this single specialized profession.*

*Our office is conveniently located in Kailua-Kona on the Big Island of Hawai'i and is managed by our President and Chief Surveyor, Chrystal Thomas Yamasaki, LPLS. Our staff has an aggregate experience of over 100 years of providing professional land surveying services in Hawai'i. Surveying is the primary focus of the firm, and we have completed thousands of individual survey projects since our inception.*

### **POSITION AVAILABLE: SURVEY PROJECT MANAGER (KONA, BIG ISLAND)**

#### Position Summary:

- Full-time position available for experienced survey project manager.
- You will be working closely with land surveyors, other project managers and CAD personnel.
- Expectations include: acquisition of field data, analysis of research and field data, preparation of project computations for use by CAD personnel and ultimately delivery of a final product for the client.
- Pay will depend on level of experience, certifications and licenses, if any.
- Our firm offers Medical, Dental and Paid Vacation and Sick Leave (at anniversary date)
- Inquire for more information/Send Resume to: [surveys@wtahawaii.com](mailto:surveys@wtahawaii.com) or call **(808) 329-2353**



# WINTER RECIPE

## PORK AND SQUASH SOUP (FILIPINO KINE)

### Ingredients:

- 2-3lbs. fresh pork chops, sliced thin (pork ribs is also good)
- 1 2lbs. small Chinese long squash, peeled, cut lengthwise, then cut into 1/4" slices
- 1/2 round yellow onion, sliced thin
- 1 whole red ripe tomato, halved and sliced thin
- 2 fresh cloves of garlic, crushed, peeled, and minced fine
- 1 whole bay leaf, ripped in half
- 2-4 Tbsp. fish sauce (nuoc mam or patis)
- fresh cracked black pepper to taste
- dash MSG to taste (optional)
- 1 Tbsp. white vinegar
- fresh cold water
- vegetable oil for frying



### Directions:

Heat a 6 qt. pot with cover. Add 2 Tbsp. oil and heat until you see some smoke. Add pork and stir fry. Brown and cook pork well done about 10-15 mins. on high heat. Season with pepper and bay leaf while frying. Add onions, tomato, and garlic. Continue to stir fry until vegetables are translucent and wilted. Add additional oil if needed. Add 4-6 cups of fresh water to pot, cover and bring meat to a nice boil then lower heat to simmer. Simmer till meat is tender. Add fish sauce, MSG (optional), and white vinegar to soup. Add squash to pot and cover. Cook till squash is soft. Add more pepper and fish sauce to adjust to your taste. Serve with white rice. Serves 3-4.

## PODCAST



Please check out Mentoring Mondays for informational presentations to help build our knowledge in this profession.  
[WWW.MENTORINGMONDAYS.XYZ](http://WWW.MENTORINGMONDAYS.XYZ)

Members have spoken and we are listening! To fill the void left by the ending this past July of the NSPS Radio Hour, the weekly radio show hosted by Executive Director Curt Sumner, we are proud to announce our new podcast, **"SURVEYOR SAYS!"** featuring all things surveying.

# SURVEYOR SAYS!



## NSPS

### THE PODCAST



Available on  
**Podbean**



Podcast Available on  
**iTunes**



Listen on  
**Spotify**



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**Google Podcasts**



<https://surveyorsays.podbean.com/>



## 2021 SUSTAINING MEMBERS

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R. M. TOWILL CORPORATION  
SAM O. HIROTA, INC.  
STANTEC  
SURVEYOR'S SUPPLY CO., INC.

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[DAN.BERG@DLBANDASSOC.COM](mailto:DAN.BERG@DLBANDASSOC.COM)

MAUI:  
DUDLEY DEPONTE  
[DUDLEY@AKAMAISURVEY.COM](mailto:DUDLEY@AKAMAISURVEY.COM)

KAUAI:  
DENNIS ESAKI  
[DENNIS@ESAKIMAP.COM](mailto:DENNIS@ESAKIMAP.COM)

## 2021 BOARD OF DIRECTORS

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VICE PRESIDENT: LEO BELL  
EMAIL: [LCB33@HUMBOLDT.EDU](mailto:LCB33@HUMBOLDT.EDU)

TREASURER: ALIKA GARO  
PHONE: 808-237-3223

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NSPS DIRECTOR: JOANNE WILLIAMSON  
PHONE: 808-543-7881

PAST PRESIDENT: CLIFF YIM

NEWSLETTER EDITOR: CHRISTINA VILLA

HAWAII LAND SURVEYORS ASSOCIATION

2022 WORKSHOP SERIES

# 2021 ALTA STANDARDS UPDATE

PRESENTED BY:

Matthew Vernon, LPLS  
Senior Associate, Survey/  
Geomatics at Stantec



WHEN: **SATURDAY, JANUARY 22, 2022**  
**9 AM TO 10 AM**



***COST TO ATTEND IS FREE***

ZOOM WORKSHOP WILL BE HOSTED BY HLSA

**Register in advance for this meeting:**

<https://us02web.zoom.us/meeting/register/tZYtdO-hqzoqEtUGcagKrKlr4q-1-0NGX6ZU>

After registering, you will receive a confirmation email containing information about joining the meeting.

# GLOBAL NAVIGATION SATELLITE SYSTEM CLASSES



GNSS technology has become a Land Surveying industry standard and there is an increasing need for Land Surveyors with GNSS technology skills. This program will provide students with a fundamental understanding of GNSS technology, Geodesy, field techniques and applications, GNSS data adjustments, processing and analytics, and map projections.

## GNSS CERTIFICATE PROGRAM


All of the courses are 16 hours each and will be offered throughout the year. Students will be able to attend remotely using Zoom.

- **NC.SURV-010 Principles of GNSS Technology** - 01/18 - 02/08 | 5:30 PM - 9:30 PM | Tuesday | Hyflex
- **NC.SURV-015 Fundamentals of Geodesy** - 02/22 - 03/15 | 5:30 PM - 9:30 PM | Tuesday | Hyflex
- **NC.SURV-020 GNSS Leveling** - 06/04 - 06/25 | 8:30 AM - 12:30 PM | Saturday | OnlineLIVE | ArcGIS online required
- **NC.SURV-025 Survey Data Adjustments** - 4/23 - 5/14 | 8:30 AM - 12:30 PM | Saturday | Hyflex
- **NC.SURV-030 GNSS Techniques** - 05/11 - 05/25 | 5:30 PM - 9:30 PM | Wednesday | OnlineLIVE | 8:30 AM - 12:30 PM Sat 5/21 ONLY - In person Lab
- **NC.SURV-035 Map Projections** - 03/23 - 4/20 | 5:30 PM - 9:30 PM | Wednesday | OnlineLIVE
- **NC.SURV-040 Control Surveys Using GNSS** - 07/11 - 07/25 | 6:00 PM - 8:00 PM | Monday | OnlineLIVE 7/11, 7/18 & 7/25 | 8:30 AM - 1:30 PM Sat 7/16 & 7/23 In person
- **NC.SURV-045 GNSS Processing and Analysis** - 08/01 - 08/15 | 6:00 PM - 8:00 PM | Monday | OnlineLIVE 8/1, 8/8 & 8/15 | 8:30 AM - 1:30 PM Sat 8/6 & 8/13 In person

**To take these online courses, students must:**

*Have access to Internet  
Have a home or business computer Possess basic computer proficiency*

**Registration instructions can be found on the back of this flyer.**

  
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**Need help with enrollment?**  
[Email freeclasses@canyons.edu](mailto:freeclasses@canyons.edu)

# REGISTRATION INSTRUCTIONS

## FREE CLASSES FOR CALIFORNIA RESIDENTS

Register through College of the Canyons Enrollment Services for the School of Personal and Professional Learning

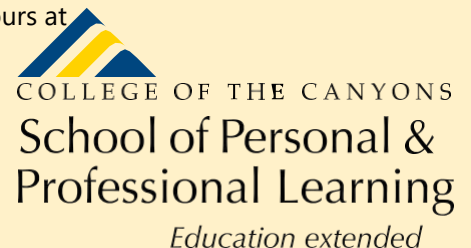
### Submit an application for admission

- Go to: [www.canyons.edu/freeclasses](http://www.canyons.edu/freeclasses)
- Click on "Applicants"
- Click on "Printable Application Instructions," if you would like a step-by-step guide to help you fill out the online application using OpenCCC.
- Click on "Go to OpenCCC" when you are ready to fill out the online application.
- Successful application submission will generate an "Acceptance" email containing your CanyonsID username. The username will be your unique COC student email address.

**Upon receipt of the "Application Acceptance" email, go to "My Canyons" to register for classes. Search the classes schedule under subject "Noncredit Land Surveying" and register,**

For assistance with enrollment, call (661) 362-3304 or email the School of Personal and Professional Learning during regular business hours at [freeclasses@canyons.edu](mailto:freeclasses@canyons.edu).

**Monday – Thursday 9:00 AM-5:00 PM**  
**Friday 9:00 AM-1:00 PM**



## REGISTRATION INSTRUCTIONS FOR NON- RESIDENTS \ FEE: \$94

**Register through College of the Canyons Community Education**

Register online at: [www.canyons.edu/gnss](http://www.canyons.edu/gnss)

For registration support e mail [communityed@canyons.edu](mailto:communityed@canyons.edu) or call (661)

362-3300. Limited In person office hours.





# Quantum-Systems Trinity F90+ UAS



**LiDAR**  
Now Available!

## Starting at \$19,500

Package Includes:

- Trinity F90+ UAV
- iBase GNSS Reference Station (PPK)
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- Remote Controller
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Features:

- Vertical Take-Off & Landing (VTOL)
- 90+ Minutes<sup>1</sup> of Flight Time
- PPK Capability
- 1.54 lb. Max Payload Capacity
- Wind Resistance up to 12 m/s
- Wide Variety of Payload Options

## Rentals<sup>2</sup> & Services

|                      |         |
|----------------------|---------|
| Rent-First Day       | \$700   |
| Rent-Add'l Days      | \$170   |
| Rent-Monthly         | \$3,500 |
| Training/Project Day | \$1,900 |

<sup>1</sup> Maximum flight time in optimal conditions  
<sup>2</sup> FAA Section 333 or Part 107 AND 1 Training Day required prior to rental



David Wilmarth  
davew@surveyorshawaii.com  
(808) 342-4393

Surveyors Supply Company, Inc.  
94-356 Uke'e St #A, Waipahu, HI 96797  
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*"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.*



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Brennan O'Neill | Geospatial Sales Representative  
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808.465.3900 | 808.824.0336 Direct / Cell

**Frontier Precision**  
2144 Auiki Street  
Honolulu, HI 96819



# Technology

## What is it?

Highly accurate method of capturing intimate details of existing buildings, construction sites, or water ways.

## How does it work?

Uses laser light and advanced scanners to create 3D points.

## What can it do?

It can document dimensions and measurements of large and small scale projects with accuracy of 2-4mm.

## Want to learn more?

Scan the QR code below for 4 reasons why 3D modeling and BIM are the future of infrastructure design.



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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 350 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 one of our experienced 3D Laser Scanning professionals below:

### **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)

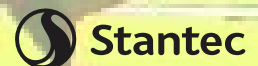
UAS remote pilot certified (Part 107)

# High Definition Laserscanning

## *Exploring the World in Three Dimensions*

Laser scanning lets us measure and collect data from small objects to large landscapes using point cloud data.

Accurate real time data can help drive your decision making, expedite projects, reduce site visits, and prevent rework.



## Capabilities

Using time-of-flight and phase-based laser scanning instruments, we provide public and private sector clients with a variety of 3DLS services. We use terrestrial laser scanning techniques to provide a total solution of 3D-mapped interior and exterior as-built environments. 3DLS collects millions of 3D points that are analyzed and processed to create highly accurate and visually engaging products.

Utilizing specialized software, we process the 3DLS data and create deliverables that are compatible with a variety of design and analysis programs. Our modeling teams have developed workflow systems to provide a practical interface solution—merging 3DLS point cloud data into industry standard drafting, modeling, and Building Information Modeling (BIM) programs.

## Benefits

3DLS offers many benefits, including accurately gathering more data in less time than traditional surveying techniques, added safety, and reduced facility downtime.

### Other benefits include:

- **Flexibility.** Systems can be mounted to vehicles to cover vast landscapes, roads, or rail systems quickly.
- **Safety.** Laser scanning allows the machine to collect the information rather than putting teams of in tight spots.
- **Site Sensitive.** Drone mounted 3D scanning supports access to historic sites, preserves history, and supports national defense.
- **Reduced Time.** Just in time data eliminates the need to schedule crews weeks in advance and saves data calibration and consolidate time.
- **Accuracy.** As-built data is readily available for future modifications and improvements.

## Applications

### Clients are moving to BIM modeling for accuracy

We employ 3DLS on projects that require high definition and precision using rapid data collection techniques. Examples include as-builts, roadways, bridges, airports, historical buildings, forensics, power generation, environmental, industrial inventories, and more.

