

ENGINEERING SECTOR PARTNERSHIP EXTENDS ITS KINDERGARTEN-THROUGH-CAREER PATHWAY WITH KAMA'AINA COME HOME PROGRAM, SUPPORTING HAWAII'S ENGINEERING TALENT TRANSITION HOME FROM THE CONTINENT.



In an age where Hawaii faces growing “brain drain” of homegrown talent, the Engineering Sector Partnership aims to reverse the tide with its Kama’aina Come Home program. By connecting Hawaii-born engineers attending college or working on the continent with local engineering executives and resources, the program offers a pathway of support for kama’aina looking to transition back home. The Kama’aina Come Home program seeks to answer the disparity between open engineering jobs and qualified local talent, rounding out the Sector Partnership’s efforts to develop a sustainable kindergarten through career talent pipeline in Hawaii.

Launched in 2018, the Engineering Sector Partnership is an industry-driven, workforce development public-private partnership convened by the Chamber of Commerce that strives to prepare Hawaii’s youth for careers in the engineering sector. To foster a progressive pathway, the Sector Partnership has three focus areas; career awareness, math readiness, and women in STEM, each with a corresponding workgroup of dedicated professionals. From career awareness initiatives at the elementary level, to exploration activities for middle school girls, to preparatory math curriculum at the high school level, and more, the pathway works towards engaging students and preparing them to enter the engineering field.

Working directly with public schools within the Hawaii Department of Education, the Sector Partnership has made a strong impact on matriculation into post-secondary engineering programs over the years. At James Campbell High School, a partner school for four years, the engineering pathway within the school’s STEAM career academy has flourished to the point of becoming self-sustaining, continuing to thrive beyond the Partnership’s direct involvement. From 2020-2024, Campbell High School has seen enrollment in their engineering pathway increase by 362%, female enrollment increase by 9%, and number of calculus completers skyrocket 517%. Since 2022, enrollment of

Campbell students in the University of Hawaii’s College of Engineering (UHCoe) has increased by 200%, expecting to graduate 48 incoming freshmen into UHCoe in 2025.

Much of this success is due to the Partnership’s collaboration with the UHCoe itself and the commitment of its Dean, Brennon Morioka. Under his guidance, the college has become a key player in shaping Hawaii’s future workforce, actively collaborating with the Engineering Sector Partnership and K-12 schools to develop passionate and prepared students. While the work of the UHCoe and Sector Partnership at Campbell, Castle, and Waipahu high schools has contributed to a significant increase in local enrollment and meaningful movement in the right direction, there remains an enduring workforce challenge in the state’s Engineering sector.

Currently, UHCoe graduates meet 73% of the state’s engineering workforce needs, leaving a substantial gap of 27%. This gap underscores the urgent need to continue the innovative strategies to both grow local talent as well as attract skilled engineers back to Hawaii. Recognizing this need, the Sector Partnership created a fourth workgroup focused

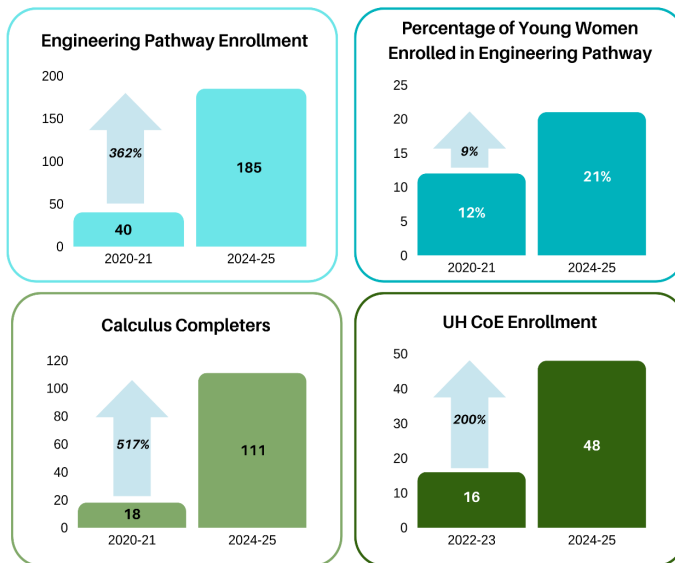
on talent recruitment and retention. After a year of convening, the workgroup has launched its signature initiative, the Kama’aina Come Home program.

Kama’aina Come Home connects local professionals and Hawaii-born engineering talent on the continent, interested in transitioning home. Through 1:1 mentorship, an exclusive LinkedIn group, informational resources, in-person networking events, and more, the program offers comprehensive support to help engineers make a smooth and successful return home. By facilitating this reconnection, the program supports kama’aina professionals in their career transitions and plays a pivotal role in addressing Hawaii’s broader workforce shortage. The Kama’aina Come Home program seeks to create a sense of local community for Hawaii-born students and professionals on the mainland, re-engaging them in the wealth of opportunity available in the dynamic and high-growth engineering sector.

With the Kama’aina Come Home program officially launched, we are seeking dedicated local professionals to support kama’aina in their transition home.

CONTINUED ON PAGE 2

Campbell Complex 2020-2024 Engineering Pathway Impact



Engineering Sector Partnership's Impact on Campbell Complex Engineering Pathway



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HAWAII COUNCIL OF ENGINEERING SOCIETIES

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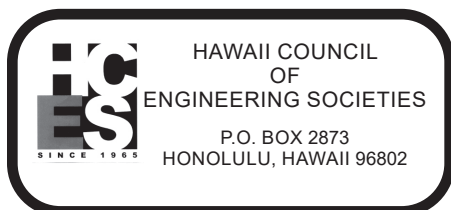
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Additions and/or corrections to the Wiliki mailing list should indicate the proper society, institution or association. Corrections to email addresses should be submitted to your society coordinator.

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NOMINATIONS FOR HCES LIFETIME ACHIEVEMENT AWARD NOW BEING ACCEPTED!

PLEASE FILL OUT THE [NOMINATION FORM](#) AND EMAIL IT

TO HCES CHAIR,
LINDSAY NAKASHIMA, AT
LNAKASHIMA@BOWERSANDKUBOTA.COM

**DEADLINE TO SUBMIT:
DECEMBER 20, 2024**

"ENGINEERING SECTOR PARTNERSHIP EXTENDS ITS KINDERGARTEN-THROUGH-CAREER PATHWAY WITH KAMA'AINA COME HOME PROGRAM, SUPPORTING HAWAII'S ENGINEERING TALENT TRANSITION HOME FROM THE CONTINENT." CONT'D FROM PAGE 1



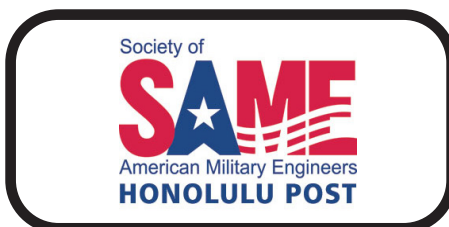
Local engineering professionals like Ernie Lau demonstrate their commitment to fostering the next generation of leaders.

Whether serving as a mentor, holding informational interviews, providing job opportunities, or sharing insights about the local engineering landscape, the Kama'aina Come Home program has a place for you. Please use the QR code below to sign up. Visit our website to explore all program offerings, www.cochawaii.org/kch.



We also encourage employers to share the Kama'aina Come Home program with engineers in their personal and professional networks—particularly those who have grown up in Hawaii but are currently studying or working on the continent. Together, we can bridge the gap and build a sustainable, locally-driven engineering workforce in Hawaii.

If you're interested in getting involved in Kama'aina Come Home or the Engineering Sector Partnership, please email McKenna Dale, Manager of Workforce Development at the Chamber of Commerce Hawaii, mdale@cochawaii.org.



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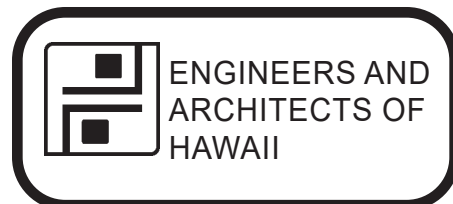
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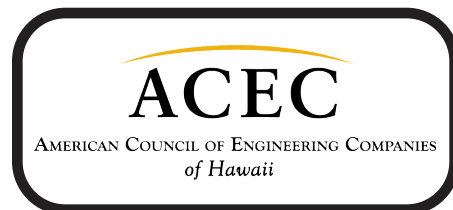
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RECAP: ACEC 2024 FALL CONFERENCE

This past October, several ACEC Hawaii board members attended the national ACEC 2024 Fall Conference in New Orleans, Louisiana. The event featured presentations on the future of engineering and discussions

highlighting AI's growing impact in the industry. Our board members are excited to share these key takeaways with the rest of the organization!

SAVE THE DATE: DECEMBER GENERAL MEMBERSHIP MEETING ON 12/04

Our next General Membership Meeting (GMM) is scheduled for Wednesday, December 4, at the Oahu Country Club. It will feature a presentation from the U.S. Army Corps of Engineers, Honolulu District, titled "Doing Work with USACE, Honolulu District." More details regarding registration will be available soon at <https://acechawaii.org/december-general-membership-meeting/>.

ACECH 2025 ENGINEERING EXCELLENCE AWARDS: CALL FOR ENTRIES

Got a great project? Consider entering it in our ACECH 2025 Engineering Excellence Awards competition. Winners will be announced at our Engineering Excellence Awards Banquet scheduled for March 22, 2025, at the Japanese Cultural Center. Go to <https://acechawaii.org/2025-acech-engineering-excellence-awards-call-for-entries/> for more info on how to submit a nomination.

NATIONAL DIRECTOR'S REPORT FOR NOVEMBER 2024

Here is the monthly National Director's Report provided ACEC Hawaii's National Director, Nimr Tamimi.

1. Fall Conference was a success
 - Biggest one to date, 1,032 attendees
 - AI was a big discussion
 - 100 scholarships were awarded



ACEC Hawaii headed over to New Orleans, Louisiana for the ACEC 2024 Fall Conference in October.

- Lester Fukuda received the National ACEC/SSPE QBS Award
2. The Engineering Workforce Consortium was officially launched with a MOU signing including ACEC, APWA and ASCE. This consortium brings together more than a dozen groups in the engineering and public works industries to address the workforce shortage.
 3. ACEC Annual Report is available here.
 4. Research Institute's Achievement Report is available on the Institute website. It's an overview of the industry and business perception of the future.
 5. Total PAC contributions in 2024 through October 31 was \$1.1M, compared to \$1.030 for the same period in 2023; 9 states achieved their PAC goals in October, bringing the total to 28.







FRONT ROW: FRANCIS CHENG - OKAHARA AND ASSOCIATES, ANDREW IZAWA - RONALD N.S. HO & ASSOCIATES, NICK CHING - JACOBS ENGINEERING, ZOE ETO - SAM O. HIROTA, SPENCER CHUNG - KAI HAWAII, KRISTEN YOSHIDA - BOWERS + KUBOTA CONSULTING, NICK KAM - EARTH ENGINEERS, SEAN BARRE - HDR ENGINEERING **BACK ROW:** KYLE SHINYAMA - AUSTIN, TSUTSUMI & ASSOCIATES, TODD HAMMOND - COFFMAN ENGINEERS, JASON LEE - OCEANIT, DUSTIN SHIMAMOTO - HIRATA & ASSOCIATES, TAYLOR CHOCK - HALEY & ALDRICH, CHESTER RAMOS - STANTEC, JASON SEIDMAN - GEOLABS, IRENE MA - BOWERS + KUBOTA CONSULTING **NOT SHOWN:** KEITH MOLINA - BURNS & MCDONNELL, BRENNAN NACARIO - WILSON OKAMOTO CORPORATION

APPLY NOW!

**CONGRATULATIONS
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GRADUATES!**

**APPLICATIONS FOR
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BEING ACCEPTED
UNTIL DECEMBER 15, 2024**

SCAN THIS QR CODE TO
LEARN MORE! →





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Ed Chang (Member-at-large) setting up the ASME table at the career fair.



Raymond Liu (Vice-Chair) talking with a high school student.



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Email: ASMEHawaii@gmail.com
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 Vice-Chair Raymond Liu
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 Secretary Derek Sato
 Members-at-Large Ed Chang, Justin Souza

NOVEMBER 8, 2024 GENERAL MEMBERSHIP MEETING NOTES

- Looking into a Board of Water Supply facility tour in March 2025. Reaching to other facilities for tours as well.
- Recruited volunteer judges for Fall 2024 Francis Rhodes Montgomery Design Competition.

- We want to thank Dr Woonchul Lee for all his help as the Student Section Advisor for the last two years as he accepted a new position in the mainland.

FALL 2024 FRANCIS RHODES MONTGOMERY DESIGN COMPETITION

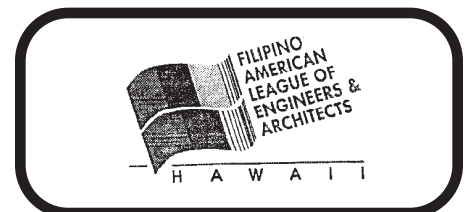
It is going to be held at UH Manoa on December 13th. Please contact us for any other additional information regarding the Fall 2024 competition or if interested in volunteering in future competitions.

2024 KAILUA HIGH SCHOOL ANNUAL CAREER FAIR

ASME was present at the Kailua High school career fair on Friday, November 1st. We had a great turn out at our table with many more students inquiring about mechanical engineering field compared to past years.

ASME-HAWAII NEXT GENERAL MEMBERSHIP MEETING

Our next meeting is tentatively scheduled via Zoom on December 6th, 2024. Please contact us if interested.



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YMF GENERAL MEETING

The next YMF general meetings will be in-person on Wednesday, December 4, 2024, at 6:00PM and Wednesday, January 8, 2024, at 6:00PM. Please check our website, social media channels, or weekly eblast for the latest information on our upcoming general meetings and events. If you are interested in attending and learning more about the various professional, social, and service opportunities available through YMF, please contact YMF at yfm.hawaii@gmail.com.

ASCE YMF JOB SHADOW PROGRAM

The Job Shadow Program is looking for students and industry professionals interested in becoming a mentee/mentor. Your interest and participation in this program will provide a valuable experience that will help guide students toward a successful path beyond graduation! If you have any questions and/or want to sign up*, please email the Job Shadow Program directly at yfmhawaii.jobshadow@gmail.com

*Note: Information collected will help the Job Shadow Program pair mentor(s) and mentee(s) up based on their experience and interest.

2024 PE EXAM UPDATE

The PE Exam is now computer-based, with appointments available year-round at Pearson VUE test centers. Information about how to register for the exam can be found on the YMF website: <https://ascehawaiiymf.org/pe-exam-information>



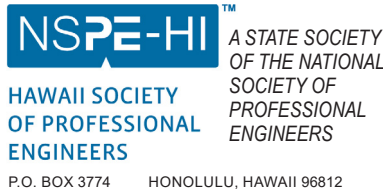
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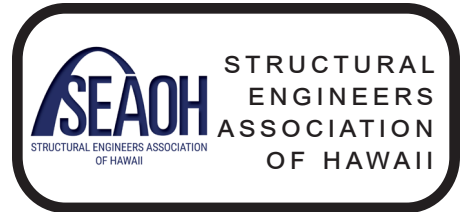
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Nominations for the Engineer of the Year and Young Engineer of the Year candidates are being accepted. Nomination forms will be available by contacting Kurt Kunimune or Pac Chung of HSPE. The awardees will be presented at the Engineer's Week Banquet in February of 2025. Please contact Kurt Kunimune or Pac Chung of HSPE at kkunimune@browsersandkubota.com or pchung@browsersandkubota.com for nomination forms or with any questions. Nominations will be due by Friday, December 27, 2024. Mahalo!

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PREVIOUS BOD MEETING

November 13, 2024

UPCOMING EVENTS

For all events see seaoh.wildapricot.org. Look for email flyers for registration of upcoming events.

- GPRM Prestress Plant Tour – November 22, 9:00 AM 91-063 Malakole Street, Kapolei, HI 96707
- Transition Dinner – Date and Location TBD

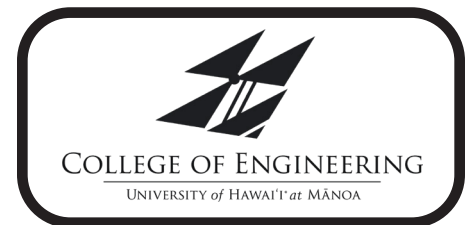
MEMBERSHIP

Travis Nitta of MKE Associates, LLC has been approved as a Associate Member.

Please contact any SEAHOH Board Member by December 1, 2024 to file comments regarding the new applicants.

NEXT BOD MEETING

Wednesday December 4, 2024. For information, contact SEAHOH President Tim Goshi at tgoshi@kaihawaii.com.



2540 Dole Street, Holmes Hall
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As a member of the Board of the Council of Engineering and Scientific Specialty Boards (CESB), AACE International offers a range of certification levels from technician to professional to expertise level including CCT, CCP, CEP, EVP and PSP Certification Programs.

The local section, AACE Hawaii, was originally established in 1973. It achieved both the Platinum and Gold Award for seven consecutive years 2014-2023. Our local area continues to achieve CCP, CEP, CST and PSP certifications. For more information, please visit <http://web.aacei.org/certification> and our local website www.aacehawaii.com.



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IEEE EXECUTIVE COMMITTEE (EXCOM) MEETING

Last meeting: November 7th, 2024

Next meeting: December 5th, 2024

Register here:

<https://events.vtools.ieee.org/m/434370>

For a full list of upcoming events, visit r6.ieee.org/hawaii/events

JOIN IEEE NOW AND ENJOY THE REST OF 2024 FOR FREE!

Are you considering becoming an IEEE member? Now is the perfect time! If you sign up for an IEEE membership today, you'll get the rest of 2024 completely free and only pay for 2025. This offer applies exclusively to new members, so don't miss out!

Register here for membership: <https://www.ieee.org/membership/join/index.html>

IEEE JOB LISTINGS

The following jobs are currently listed on the IEEE Job Board.

- [Senior Electrical Engineer](#) - Pond & Company
- [Electrical Engineer](#) - Bishop & Company
- [Electrical Engineer](#) - 'Iolani School

For job listings, visit r6.ieee.org/hawaii/jobs

Want to post a job?

r6.ieee.org/hawaii/post-a-job

UPCOMING CONFERENCE IN HAWAII

- [2024 IEEE 17th International Conference on Nano/Molecular Medicine & Engineering \(NANOMED\)](#), 2 - 5 December 2024 | Honolulu, Hawaii, USA | Event Format: In-person
- [2024 Annual Computer Security Applications Conference \(ACSAC\)](#), 9 - 13 December 2024 | Honolulu, Hawaii, USA | Event Format: In-person
- [2025 Pan Pacific Strategic Electronics Symposium \(Pan Pacific\)](#), 27 - 30 January 2025 | Maui, Hawaii, USA | Event Format: In-person
- 2025 International Conference on Computing, Networking and Communications (ICNC), 17 - 20 February 2025 | Honolulu, Hawaii, USA | Event Format: In-person

For more information about upcoming conferences, visit https://conferences.ieee.org/conferences_events/conferences/search?q=Hawaii

IEEE UH MANOA STUDENT BRANCH PREPARE FOR THE FE EXAM

On November 6th, the IEEE UH Manoa Student Branch held their Third General Meeting with guest speaker Justin Kauwale of Engineering Pro Guides, who covered how to study and prepare for the FE Exam. He discussed the importance of the FE, walked through test registration, and discussed what the exam looks like for participants. He encouraged students to take the FE through practice problems and provided study materials and tips to help students succeed. Justin graciously provided study guides to the attendees and paid for one lucky attendee's FE exam.

ENGINEERING YOUR FINANCIAL SUCCESS

This action-packed event will be hosted in

a dedicated D&B Sports Lounge. Join us for a great financial talk geared toward young professionals and an opportunity to network with others in the industry.

Summary of Topics:

1. Financial Organization - Find greater clarity in your financial world.
2. Protection - Solidify your financial foundation.
3. Wealth Building - Build a powerful balance sheet.
4. Long-term Tax planning - Reduce your overall tax liability

Roxy Kiessling is a Financial Advisor with WestPac Wealth Partners, working in downtown Honolulu. After exploring various careers, she found her passion in helping others make well-informed decisions about their finances by offering new perspectives to previously unconsidered possibilities. We're excited to have Roxy share her knowledge with us.

Date: 21 Nov 2024

Time: 05:30 PM to 07:30 PM

Location: Building: Dave & Busters, 1030 Auahi St, Honolulu, Hawaii, 96814.

Register here:

<https://events.vtools.ieee.org/m/442103>

SURF & CIRCUITS: IEEE MTT-S HAWAII NETWORKING AND BEACH BBQ

The IEEE Microwave Theory and Techniques Society (MTT-S) Hawaii Chapter cordially invites students, academics, industry professionals, and IEEE officers to our annual "Surf & Circuits" techno-networking event. This unique gathering combines cutting-edge microwave and RF technology discussions with the relaxed atmosphere of Hawaii's beautiful coastline.

Event Highlights:

- "Impromptu" presentations from MTT-S officers and members (chaired session, projector, and speaker will be available)
- Networking opportunities.
- Informal discussions with academics, professors, and industry experts.
- Multi-cultural fusion lunch featuring local and international cuisine.

This event offers an excellent opportunity for professionals to connect with peers, for students to engage with potential mentors, and for all attendees to stay current with the latest developments in our field. We encourage



IEEE UH Manoa Student Branch's Third General Meeting

attendees to bring family members to enjoy the scenic location while participating in this valuable professional development opportunity. RSVP required. Please register by November 22, 2024.

Join us for a day of innovation, collaboration, and the Aloha spirit as we bridge the gap between academia and industry in the beautiful setting of Magic Island.

Date: 23 Nov 2024

Time: 10:00 AM to 02:00 PM

Location: Magic Island

<https://events.vtools.ieee.org/m/445584>

ACCELERATION OF ENCRYPTION ALGORITHMS: ELLIPTIC CURVE TO POST QUANTUM CRYPTO-ALGORITHM (PQC) & CHIP DESIGN AND FABRICATION

Prof Makoto Ikeda from University of Tokyo will give a seminar talk on "Acceleration of Encryption Algorithms: Elliptic Curve to Post Quantum Crypto-Algorithm (PQC) & Chip Design and Fabrication Democratization" on Wednesday Dec 4th at 6:30PM. This talk will cover basics of public-key encryption, and example design optimization of elliptic-curve based encryption algorithms. Then extend design optimization on post quantum crypto-algorithm, CRISTALS-Kyber (FIPS 203 MLB-KEM)/Dilithium (FIPS204 MLB-DSA), hash based (FIPS 205 SHB-DSA), isogeny based encryption algorithms. This talk will also introduce our recent activities, Agile-X project, for democratizing chip designs and fabrications.

Date: 04 Dec 2024

Time: 06:30 PM to 08:00 PM

Location: 2540 Dole St, University of Hawaii, Honolulu, Hawaii

Building: Holmes Hall, Room Number: 244.

Register here:

<https://events.vtools.ieee.org/m/446012>

HAWAII FIRST ROBOTICS: CALL FOR VOLUNTEERS

Hawaii FIRST Robotics is looking for volunteers for our big state championship event on Sunday, December 15th.

- Event: FIRST Lego League (late elementary – middle school students) & FIRST Explorer (elementary students only)
- Season Theme: Submerged (see link for this year's game video)
- Location: McKinley High School Gym & Library, 1039 S King St, Honolulu, HI 96814
- For more information, please contact: Cris Felicitas (cris808@hawaii.edu)
- Volunteer Hours: 7:30am – 2:30pm (hours can vary depending on the role needed)
- Volunteer Registration (first time volunteers, please click on "Sign Up Here" to register) <https://login2.firstinspires.org/Account/Login>



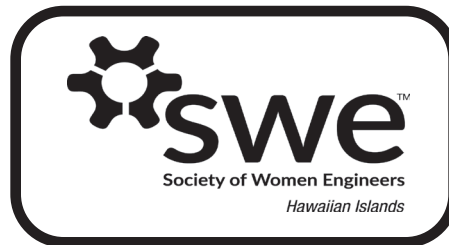
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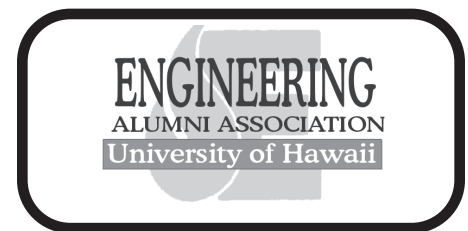
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