



PACIFIC INTERNATIONAL CENTER FOR HIGH TECHNOLOGY RESEARCH
1440 Kapiolani Boulevard, Suite 1410 | Honolulu, Hawaii 96814 U.S.A.
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August 25, 2025

Mr. Benson Medina
Director of Research & Development
County of Hawai'i
25 Aupuni Street, Suite 1301
Hilo, Hawai'i 96720

Subject: Statement of Qualifications and Expression of Interest – Professional Services RD.15
(Operation Research)

Dear Mr. Medina,

The Pacific International Center for High Technology Research (PICHTR) respectfully submits this Statement of Qualifications and Expression of Interest to be considered for professional services under HRS 103D-304 for the County of Hawai'i during Fiscal Year 2025–2026.

Under the leadership of President Ian Y. Kitajima and Program Director Keith T. Matsumoto, PICHTR continues to build on its 40-year history of advancing innovation, technology deployment, and workforce development across Hawai'i. Our work bridges community needs with practical solutions, aligning with County priorities in sustainability, economic development, education, and technology.

PICHTR's 2023 and now 2025 [Waipahu High School Smart Intersection / Campus project](#) is to demonstrate the integration of advanced digital infrastructure, **AI-based Video Analytics for traffic safety**, and data-driven campus management tools to support students, educators, and the community. PICHTR collaborated with Hawai'i Department of Transportation and NEC, and again on the Western Association of State Highway and Transportation Officials (WASHTO) Annual Conference in Honolulu (2023), where PICHTR coordinated and showcased [Waipahu High School students and their project](#). These efforts reflect PICHTR's commitment to serving as a trusted partner to government agencies, community organizations, and industry in developing resilient, forward-looking solutions that directly benefit Hawai'i's people.

Respectfully,

Ian Kitajima
President

1. Firm Information

- Name of Firm: Pacific International Center for High Technology Research (PICHTR)
- Principal Office: 1440 Kapiolani Boulevard, Suite 1410, Honolulu, HI 96814
- Contact Persons: Ian Kitajima, President | ian.kitajima@pichtr.org | Ph: (808) 226-8805
Janel Pang, VP, CFO & Contracts Officer | janel.pang@pichtr.org | Ph: (808) 943-3762

2. Age of Firm and Staffing

PICHTR was established in 1985 as a Hawai'i-based non-profit research and development organization. Over the past five years, PICHTR has maintained an average of 5–10 professional staff and research associates, supplemented by strategic partnerships with universities, private-sector technology companies, and international collaborators.

Key senior staff include:

Ian Y. Kitajima – President, PICHTR

With over 35 years of experience in technology commercialization, business development, and community innovation, Ian is nationally recognized for his role in bringing design thinking, computer science, Artificial Intelligence, and STEM education into Hawai'i's public schools. As Co-founder and Lead Co-facilitator of Design Thinking Hawai'i, he has supported the training of educators, administrators, and students across the state, embedding human-centered problem-solving and now Artificial Intelligence, into classrooms and education policy.

Keith T. Matsumoto, DBA – Program Director, PICHTR

Keith brings decades of executive leadership in applied research, program management, and organizational development. As Co-founder and Administrator of Design Thinking Hawai'i, he has worked directly with public schools to promote innovative teaching methods, curriculum integration, and workforce development initiatives. His extensive background includes senior management roles at various commercial and utility organizations, and leadership positions at PICHTR, where he has overseen large-scale STEM, technology, and education-related projects. Dr. Matsumoto is a lifetime member of the American Society of Civil Engineers, member of the National Contract Management Association (NCMA), Advisor to the Aloha Chapter of NCMA, and former chair and member of the State Procurement Board.

3. Qualifications of Key Staff

PICHTR staff bring expertise across community and economic development, sustainability systems, data science, workforce development, contracts and project management, and technology deployment.

Highlighted Key Staff:

- Ian Y. Kitajima, President – Expertise in design thinking, innovation management, technology commercialization, and workforce development. Extensive track record of collaborations with Hawaii Department of Education, supporting teacher training, student STEM engagement, and school innovation programs. [Linkedin](#)

- Keith T. Matsumoto, Program Director – Expertise in program and project management, organizational development, government contracting, and community engagement. Long history of STEM and education innovation programs with Hawai'i's public schools, leveraging design thinking to connect classrooms with real-world problem-solving and workforce readiness. [Linkedin](#)

4. Representative Project Experience

A. Waipahu High School Smart Intersection / Campus Project - Waipahu 2023

Hawai'i Department of Transportation (HDOT), University of Hawaii, NEC, Waipahu High School.

PICHTR led the design, planning and implementation of Hawai'i's first Smart Intersection / Campus project in collaboration with Hawaii State Department of Transportation (HDOT), Waipahu High School, and NEC in early 2023. This initiative integrated advanced digital infrastructure, next generation **AI-based Video Analytics for traffic safety**, and data-driven tools to improve campus pedestrian and vehicle operations and safety, but equally important was to support student learning. **The Approach:**

Students as Innovators: Students (22 juniors, and 2 seniors) at Waipahu High School's IT Academy participated in a real-world innovation project during their 3 period over 10 classes. The project included learning (1) how AI systems are trained, (2) examined real-time traffic data, including counts of vehicles, pedestrians, and "near misses", and (3) used **Design Thinking** to frame questions, analyze data, and prototype solutions.

Human-Centered Design: The students applied Design Thinking to turn data into potential safety interventions, presenting their solutions to **industry, government, and community stakeholders**.

These activities connected public school students directly with State DOT leadership and NEC engineers, building capacity for Hawai'i's future workforce while aligning with County goals of public safety, sustainability, and equitable broadband access.

Key Features

- **AI-Powered Traffic Monitoring:** NEC's system enabled continuous observation and prediction of risky interactions at crossings.
- **Community & Workforce Development:** Beyond safety, the project was framed as a **workforce development pilot**—exploring "how do we create the careers of the future?" by giving students hands-on, real-world innovation challenges.
- **Public Sharing:** Results were shared in a **stakeholder briefing (May 10, 2023)**, and a public-facing project video ([YouTube](#)).

Impact

1. **Safety Innovation:** Tested how AI can enhance crosswalk/intersection safety in Hawai'i.
2. **Student Empowerment:** Demonstrated that high school students can contribute to solving complex community challenges using cutting-edge tools.
3. **Model for Future Projects:** Provided a replicable framework where *real-world clients (HDOT)*, *global tech innovators (NEC)*, and *local students* co-create solutions.

As part of this initiative, PICHTR also introduced NEC's Road DX (Road Digital Transformation) technology into the campus and community context. Road DX leverages a localized 5G network and advanced fiber sensing to enable smart mobility, roadway safety monitoring, and infrastructure management. [Project Video](#)

B. Western Association of State Highway and Transportation Officials (WASHTO) Conference – Honolulu 2023: PICHTR worked with the Hawai'i Department of Transportation, host of the 2023 WASHTO Conference and NEC to deliver an innovation showcase at the conference. PICHTR coordinated NEC's trade show booth design and logistics, led the Road DX pilot with Hawai'i public high school students, and produced a professional project video presented by HDOT Deputy Director Ed Sniffen. PICHTR also supported efforts to bring students to the conference to share their Road DX experiences directly with WASHTO attendees, including transportation officials and [Hawaii News Now](#). This project demonstrated PICHTR's expertise in program management, technology integration, and education-to-industry engagement, while elevating Hawai'i's role in national conversations on smart infrastructure and roadway safety.

Hawaii News Now: [Hawaii students first in nation to use AI program for traffic crash prevention](#)

C. AI Sensing-Empowered Smart Intersection Safety Improvements for Vulnerable Groups – Waipahu 2025. *Hawai'i Department of Transportation (HDOT), University of Hawaii, NEC, Waipahu High School.*

The Hawai'i Department of Transportation, in partnership with the University of Hawai'i, PICHTR, and Waipahu High School is launching an AI-enabled smart intersection pilot in Waipahu to address Hawai'i's traffic safety crisis, particularly its disproportionate impact on pedestrians and kūpuna in disadvantaged communities. By combining AI video analytics with Vehicle-to-Everything (V2X) communication, the system will detect and predict the movement of vehicles, cyclists, and pedestrians—including those using assistive devices—and issue real-time collision warnings through V2X units and dynamic message signs, ultimately creating safer intersections and a scalable model for future smart mobility systems.

The Pacific International Center for High Technology Research (**PICHTR**) will serve as the **community technology connector and innovation partner** within the project. Leveraging its decades of experience bridging **innovation, business, education, community, and culture**, PICHTR will:

- Lead **community engagement design** ensuring meaningful involvement of Waipahu residents and alignment with Justice40 principles.

- Provide expertise in **technology commercialization and dual-use transition**, ensuring scalability and sustainability beyond the pilot.
- Support the **education component** by co-developing workshops with the local high school, integrating Design Thinking and AI learning to empower students as future transportation innovators.
- Facilitate collaboration between HDOT, UH Mānoa, nonprofits, and private-sector partners, acting as a “**tech sherpa**” to ensure the pilot serves as a model for Hawai‘i and the broader Pacific.

Design Intelligence Lab (Statewide, including Hawai‘i Island)

- Launch: September 2024. Annual.
- Funders: Harold K.L. Castle Foundation, Public Schools of Hawai‘i Foundation.
- Focus: Combines AI + Design Thinking for students (student gov’t leaders) and teachers.
- Application: Helps students move from problem-finding to prototyping solutions at scale—something not previously possible without AI.
- **Contacts:** Tiffany Frias (student gov’t coordinator), tiffany.frias@k12.hi.us; Ken Hiraki (Public Schools of Hawaii Foundation), kenhiraki@pshf.org

Agtech Movement (Statewide, including Hawai‘i Island)

- Launch: January 2023. 14 trips to date.
- Funders: Hawaii Department of Education
- Focus: Take public school educators from across the state to visit South Korea's ag tech industry, which is 20+ years ahead of Hawaii. All three complexes from Hawaii Island, 20 educators, plus another group is going to South Korea in October 2025. In June of 2025, the first group of students visited, in 13 trips to South Korea. Eleven Hawaii Island ALP students and 6 chaperones went to South Korea in June of 2025.
- Application: Helps teachers see the future of agriculture for Hawaii, and their students, by Visiting South Korea, which is creating a brand-new industry called AgTech or Smart Farming.
- **Contacts:** Janette Snelling, West Hawaii Complex Area Superintendent, janette.snelling@k12.hi.us; Nani Damasco, ALP lead West Hawaii, nani.damasco@k12.hi.us

Additional Projects:

- Renewable energy technology demonstrations and community energy planning across Hawai‘i.
- Workforce development programs in clean energy/water, STEM, and digital skills.
- Community engagement and planning initiatives incorporating Indigenous data practices and sustainability frameworks.
- [Hawai‘i Wave](http://www.hawaiiwave.org) is a dual-use technology incubation, economic and workforce development initiative that empowers Hawai‘i’s students, workers, and local companies to leverage artificial intelligence and emerging technologies for economic growth, resilience, and defense-aligned innovation across the islands. www.hawaiiwave.org
- [PACT Conference](#): An annual convening that brings together dual-use, clean energy and technology leaders to explore data-sharing, policy, and public–private collaboration across the Asia Pacific region. [PACT Conference](#)

- [J-StarX](https://pichtr.org/jstarx/): A dual-use technology accelerator in partnership with Japan's METI, connecting Japanese startups with U.S. DoD pathways and Hawai'i's workforce and economic development partners. Recent 2025 outcome is two companies from the Cohort 1 will be setting up manufacturing operations for advance materials and drones in Hawaii. <https://pichtr.org/jstarx/>

5. Additional Information

See attached Executive Summary



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Executive Summary – Statement of Qualifications

The Pacific International Center for High Technology Research (PICHTR) is a Hawai'i-based non-profit established in 1985, with over 40 years of experience advancing technology, innovation, and community-based solutions across the islands. PICHTR is committed to supporting the County of Hawai'i through professional services that integrate technology, sustainability, and workforce development.

Leadership & Expertise:

- Ian Y. Kitajima, President – Recognized statewide for pioneering design thinking and STEM programs in Hawai'i's public schools. Brings 35+ years of experience in technology commercialization and workforce development.
- Keith T. Matsumoto, Program Director – Veteran leader in STEM, education innovation, and technology development, with expertise in contracts and project management, organizational development, and public-school partnerships.
- Guohui Zhang, Ph.D., P.E., F.ASCE – Professor, Civil and Environmental Engineering at the University of Hawai'i at Mānoa; Associate Director of the Center for Safety Equity in Transportation. Internationally recognized for advancing research in transportation systems, traffic flow theory, and cyber-transportation security. Leads multi-million-dollar federally and state-funded projects on connected and autonomous vehicles, AI-driven traffic management, and climate-resilient infrastructure. Brings 20+ years of expertise in engineering research, education, and innovation in transportation safety and mobility.

Representative Projects and Contacts:

Waipahu High School Smart Campus (HDOT and NEC collaboration): Hawai'i's first Smart Campus pilot, integrating digital infrastructure, **AI-based Video Analytics for traffic safety**, and security systems to enhance education and operations. PICHTR also introduced NEC's Road DX (Road Digital Transformation) technology at Waipahu, while Waipahu High students learned how to be consultants asking questions, analyzing, and presenting their findings in a real-world pilot with NEC engineers and HDOT leadership (the client). [Project Video](#)

Organization	Point of Contact	Role / Notes
Waipahu High School	Principal Zachary Sheets. zachary.sheets@k12.hi.us	School leadership, primary for onsite coordination
Waipahu High School	Matthew Mitsuyuki. matthew.mitsuyuki@k12.hi.us	Academy Principal overseeing this project

Organization	Point of Contact	Role / Notes
Waipahu High School	Cindy Takara. cindy.takara@k12.hi.us	Academy of Information Technology Director, and teacher who we worked with.
HDOT – Director	Edwin “Ed” Sniffen. edwin.h.sniffen@hawaii.gov	Head of HDOT and the head of Highways Division during this project
HDOT – Deputy Director for Highways	Robin Shishido. robin.k.shishido@hawaii.gov	Direct oversight of highways operations
NEC Corporation of America	<i>Bart Beavers, local NEC rep.</i> bart.beavers@necam.com	Local rep, but may have limited knowledge as he was not directly involved with the project. Original person has been promoted back to Japan.

- WASHTO Conference – Honolulu (2023): PICHTR collaborated with NEC and HDOT to showcase smart mobility solutions. Led the Road DX pilot with Hawai‘i public high school students, produced a professional video for HDOT leadership, and supported student engagement with national transportation officials. **Hawaii News Now:** [Hawaii students first in nation to use AI program for traffic crash prevention](#)

Additional projects include renewable energy demonstrations, workforce training programs, and Indigenous data-informed community planning (see information attached to DPW-120).

Why PICHTR?

- Four decades of proven leadership in Hawai‘i’s innovation and technology ecosystem.
- History of successful collaborations with Hawaii DOE, HDOT, NEC, University of Hawaii, and community organizations.
- Experienced staff with unique expertise bridging technology, education, and sustainable development, as well as managing over \$350M of US Federal, State, County, and International funds.

Contact:

Ian Kitajima, President

Email: ian.kitajima@pichtr.org | Phone: (808) 226-8805

<https://pichtr.org/>

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES

QUESTIONNAIRE FOR ARCHITECTS, ENGINEERS AND OTHER PROFESSIONAL SERVICES

QUESTIONNAIRE FOR: (LIST DISCIPLINE) Professional Services: Planning Services, Program Management; Project Management; Outreach & Community Engagement	OTHER QUESTIONNAIRES SUBMITTED: (LIST DISCIPLINES)	DATE 8/25/2025
Pacific International Center for High Technology Research (PICHTR)	ESTABLISHED YEAR STATE 1985/HI	TYPE OF ORGANIZATION (Underline) INDIVIDUAL PARTNERSHIP <u>CORPORATION</u> JOINT VENTURE OTHER
BUSINESS ADDRESS, TELEPHONE & FAX NO. OF HAWAII OFFICE 1440 Kapiolani Blvd., Suite 1410, Hon., HI 96814	AGE OF FIRM 39 years	FEDERAL ID NO. 99-0242476 YEARS ESTABLISHED IN HAWAII - 39
PRINCIPALS OF FIRM: (NAMES) Ian Kitajima, President Keith Matsumoto, Programs Director	ASSOCIATE MEMBERS OF FIRM: (NAMES) Guohui Zhang, Ph.D., P.E., F.ASCE	
PRESENT BRANCH OFFICE(s): (ADDRESS, TELEPHONE & FAX NO.)	PERSON IN CHARGE: (NAMES)	

NUMBER OF PERSONNEL IN YOUR PRESENT ORGANIZATION

LOCATED AT	PRINCIPALS & KEY PERSONNEL			OTHER PERSONNEL											TOTAL
	Architect	Engineer	Others	Architect	Engineers				Draftsmen	Spec. Writer	Estimator	Inspector	Surveyor	Balance	
					Mech.	Electri	Civil	Others							
HOME OFFICE			3				1							4	8
BRANCH IN															
TOTAL			3				1							4	8
TECHNICAL PERSONNEL:				NUMBER OF PERSONNEL WITH HAWAII LICENSES					1	NUMBER OF PERSONNEL WITHOUT HAWAII LICENSES					7

PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES WITHIN YOUR FIRM							
NAME Ian Kitajima		RESIDENT OF USA/HI		NAME Keith Matsumoto		RESIDENT USA/HI	
TITLE President				TITLE Programs Manager			
YEARS OF EXPERIENCE 37	AS PRINCIPAL IN THIS FIRM 2 years	AS PRINCIPAL IN OTHER FIRMS 30 years	OTHER THAN PRINCIPAL 5 years	YEARS OF EXPERIENCE 46	AS PRINCIPAL IN THIS FIRM 12 years	AS PRINCIPAL IN OTHER FIRMS 28 years	OTHER THAN PRINCIPAL 6 years
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) University of Hawaii at Manoa, BBA, 1988, Marketing & International Business				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Walden University, DBA, 2021, Business Admin. University of Michigan at Ann Arbor, MBA, 1984, Acctg/Operations Mgmt/IT University of Pennsylvania, BSCE, 1979, Civil & Urban Eng.			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS				MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS ASCE - lifetime member, NCMA			
REGISTRATION (TYPE, YEAR, STATE)				REGISTRATION (TYPE, YEAR, STATE) EIT/1980/HI			
NAME		RESIDENT OF		NAME		RESIDENT OF	
TITLE				TITLE			
YEARS OF EXPERIENCE	AS PRINCIPAL IN THIS FIRM	AS PRINCIPAL IN OTHER FIRMS	OTHER THAN PRINCIPAL	YEARS OF EXPERIENCE	AS PRINCIPAL IN THIS FIRM	AS PRINCIPAL IN OTHER FIRMS	OTHER THAN PRINCIPAL
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)				EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS				MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS			
REGISTRATION (TYPE, YEAR, STATE)				REGISTRATION (TYPE, YEAR, STATE)			

PERSONAL HISTORY STATEMENT OF TECHNICAL PERSONNEL WITHIN YOUR FIRM

NAME Guohui Zhang		STATUS (Underline) Full-Time <u>Part-Time</u>	NAME		STATUS (Underline) Full-Time <u>Part-Time</u>
TITLE OR POSITION Engineer		YEARS OF EXPERIENCE 17 years	TITLE OR POSITION		YEARS OF EXPERIENCE
WITH THIS FIRM 0	WITH LAST FIRM (NAME & NO. OF YEARS) Univ. of Hawaii; 8 years	WITH OTHER FIRMS 8 years	WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION) Univ. of Washington, Ph.D., 2008, Civil Engineering Tsinghua University, M.S., 2003, Systems Engineering Harbin Institute of Technology, B.S., 2000, Control Engineering			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)		
REGISTRATION (TYPE, YEAR, STATE) PE, 2024, Hawaii)			REGISTRATION (TYPE, YEAR, STATE)		
NAME		STATUS (Underline) Full-Time <u>Part-Time</u>	NAME		STATUS (Underline) Full-Time <u>Part-Time</u>
TITLE OR POSITION		YEARS OF EXPERIENCE	TITLE OR POSITION		YEARS OF EXPERIENCE
WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS	WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)		
REGISTRATION (TYPE, YEAR, STATE)			REGISTRATION (TYPE, YEAR, STATE)		
NAME		STATUS (Underline) Full-Time <u>Part-Time</u>	NAME		STATUS (Underline) Full-Time <u>Part-Time</u>
TITLE OR POSITION		YEARS OF EXPERIENCE	TITLE OR POSITION		YEARS OF EXPERIENCE
WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS	WITH THIS FIRM	WITH LAST FIRM (NAME & NO. OF YEARS)	WITH OTHER FIRMS
EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)			EDUCATION (COLLEGE, DEGREE, YEAR, SPECIALIZATION)		

OUTSIDE ASSOCIATES AND CONSULTANTS USUALLY EMPLOYED

DISCIPLINE	NAME OF FIRM OR INDIVIDUAL		DISCIPLINE	NAME OF FIRM OR INDIVIDUAL
Stakeholder coordination, technology expert (AI, EV, digital comms)	Quintessence LLC			

ERRORS AND OMISSIONS INSURANCE

DOES YOUR FIRM HAVE ERRORS & OMISSION (E&O) INSURANCE? (Underline)			AMOUNT OF COVERAGE PER CLAIM	AMOUNT OF DEDUCTIBLE
<u>YES</u>	NO	PROJECT INSURANCE	\$ 1,000,000	\$ 25,000

Submit proof of insurance or insurability from your insurance carrier with this form.

SUMMARY OF YOUR FIRM'S COMPLETED AND PRESENT PROJECTS DURING THE LAST TEN YEARS

AS A PRIME A/E CONSULTANT

TOTAL NUMBER OF COMPLETED PROJECTS	0
TOTAL ESTIMATED CONSTRUCTION COST OF COMPLETED PROJECTS	\$
TOTAL NUMBER OF PRESENT PROJECTS	0
TOTAL ESTIMATED CONSTRUCTION COST OF PRESENT PROJECTS	\$

AS AN ASSOCIATE WITH OTHER A/E CONSULTANTS

TOTAL NUMBER OF COMPLETED PROJECTS	0
TOTAL ESTIMATED CONSTRUCTION COST OF COMPLETED PROJECTS (ONLY THE PORTION OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)	\$
TOTAL NUMBER OF PRESENT PROJECTS	1
TOTAL ESTIMATED CONSTRUCTION COST OF PRESENT PROJECTS (ONLY THE PORTION OF WORK FOR WHICH YOUR FIRM IS RESPONSIBLE)	\$

CLASS OF WORK AND PROJECT TYPE SPECIALIZATION

TYPE OF PROJECT	TOTAL NO. OF COMPLETED PROJECTS	TOTAL ESTIMATED CONSTRUCTION COST	TOTAL ESTIMATED PROJECT SIZE (G.S.F.)
n/a			

Categorize your firm's class for work during the last ten years by project type. Examples of project types include Educational, Commercial, Industrial, Residential, Health Care, Correctional and Judicial Facilities. Work may also be categorized as planning, civil sitework, renovation/alteration, architectural barrier removal, fire alarm system, etc.

PRESENT/COMPLETED PROJECTS IN WHICH YOUR FIRM IS/WAS DESIGNATED THE PRIME CONSULTANT (BY TYPE)

(LIST A MAXIMUM OF 10 PROJECTS FOR EACH DISCIPLINE/TYPE OF WORK BEING APPLIED FOR. LIST PROJECTS THAT REFLECT YOUR ABILITY TO PROVIDE QUALITY WORK FOR YOUR REQUESTED PROJECTS.)

TYPE:							
YEAR	NAME AND LOCATION OF THE PROJECT	NAME OF LEAD DESIGNER	NAME, ADDRESS, PHONE & FAX NO. OF THE OWNER	ESTIMATED CONST. COST (\$)	DURATION FOR DESIGN (MONTHS)	% COMPLETED	
						DESIGN	CONST.
	n/a						

PRESENT/COMPLETED PROJECTS THAT YOUR FIRM IS/WAS ASSOCIATED WITH OTHERS (BY TYPE)

(LIST A MAXIMUM OF 10 PROJECTS FOR EACH DISCIPLINE/TYPE OF WORK BEING APPLIED FOR. LIST PROJECTS THAT REFLECT YOUR ABILITY TO PROVIDE QUALITY WORK FOR YOUR REQUESTED PROJECTS.)

TYPE:								
YEAR	NAME AND LOCATION OF THE PROJECT	NAME, ADDRESS, PHONE & FAX NO. OF THE OWNER	ESTIMATED CONSTRUCTION COST		DURATION FOR DESIGN (MONTHS)	PRIME FIRM ASSOCIATED WITH	% COMPLETED	
			ENTIRE PROJECT	YOUR FIRM'S WORK			DESIGN	CONST.
	Please see attached project listing							

Relevant Project Experience

1. The **Hawai'i Wave Dual-Use Incubation Program (April 28, 2025 – March 31, 2026)** is a mission-driven accelerator designed to help Hawai'i-based companies adapt their technologies for both civilian and government markets. Hosted by PICHTR, the program supports local innovators in turning community-focused tools into solutions that serve national security, disaster response, and resilience needs. Through expert coaching, federal funding guidance, and strategic networking, Hawai'i Wave empowers early-stage ventures to bridge local values with global impact—advancing dual-use readiness while strengthening the economic and social fabric of Hawai'i.
2. The **PaCT Conference (Pacific Conference on Dual-Use Technology) (ongoing)** is Hawai'i's premier gathering for innovators, government leaders, and industry partners advancing technologies with both civilian and defense applications. Hosted in the spirit of collaboration and cultural respect, PaCT connects local companies with Department of Defense stakeholders, federal agencies, and global allies to explore emerging needs in areas like climate resilience, public safety, and infrastructure security. With panels, pitch sessions, and strategic matchmaking, the conference fosters opportunities for Hawai'i-based ventures to align with national missions and secure pathways into the dual-use innovation ecosystem.
3. **AI Workshops (ongoing):** organizing a diverse range of AI workshops across Hawaii focused on empowerment, education, and community transformation. These include hands-on workforce upskilling sessions for union members to reduce fear and boost AI literacy, youth-focused hackathons that teach no-code chatbot development, and educator training programs that combine Design Thinking with generative AI to solve real-world problems. In classrooms, we're integrating AI with agtech simulators and 3D holographic tools to make learning interactive and culturally grounded. We've also created custom GPTs to help companies apply to dual-use incubators and are exploring AI for civic engagement, such as reimagining spaces post-disaster. All of this is tied together by our mission to make AI accessible, locally relevant, and a tool for inclusive innovation across community, culture, education, business, and technology.
4. **Government of Japan, Ministry of Economy, Trade and Industry (METI) JETRO J-StarX Dual-Use Incubation Program (9/1/2023 – present)**
The J-StarX Dual-Use program is a program of the Government of Japan, Ministry of Economy, Trade, and Industry, and operated by the Japan External Trade Organization (JETRO). PICHTR is the dual-use program lead and works with JETRO on the selection of appropriate companies for mentorship and guidance in U.S. Federal contracting and engagement with the U.S. Department of Defense.

Program Components:

- **US Gov't Fundamentals: August - September:** This phase will focus on gathering a number of potential dual use companies to start the screening process early, which

is a key success factor. Every company will benefit from learning the fundamentals of working with the US Government. Companies will also begin the process of converting their company information into Penta charts, Capabilities Statements, presentations, and other US government focused materials which are used in Phase II if the companies are selected. Phase I will be primarily online, though the kick-off session will be in person in Tokyo.

- US Gov't Customer Engagement: November to March: The cohort is executed as currently being conducted. This includes proposal development support and contracting support.
- Curriculum and Programming: Adaptation of the existing J-StarX Dual-Use curriculum to fit each cohort's compressed, primarily online timeframe. Prioritize providing fundamental knowledge of doing business with the U.S. government and the Defense Industry sector, including the development of Penta and Quad Charts, U.S. registrations such as sam.gov, and basic understanding of federal government regulations and requirements.

5. **Workforce-4-Water (2/1/23 – present)**

Workforce-4-Water is a cesspool conversion workforce development project under the W4W partnership of the University of Hawaii and the nonprofit Wastewater Alternatives & Innovations (WAI Org Inc or WAI) to provide direct services to individuals in the form of training of 150 professionals to enhance their employment opportunities, addressing the Statewide cesspool pollution and the COVID-19 economic devastation causing widespread unemployment.

Advanced technician training in key wastewater pathways will be developed with industry input. PICHTR and WAI plan to work with EDAH along with industry employers to maximize the number of professionals trained under this project. The project will evaluate the effectiveness of the training relative to industry needs and other key performance standards as described below.

Due to COVID-19, Hawai'i went from having one of the lowest unemployment rates in early 2020 to the highest among all US states in late 2020. It is anticipated that W4W's workforce development program will help address Hawaii's high unemployment rate by developing community college certificate and training programs within the on-site wastewater industry that will result in 150 well-paid, permanent jobs accessible to professionals within diverse educational backgrounds, and geographic areas. W4W will also create 5 teaching jobs to be located at various local community colleges within the University of Hawaii system.

6. **Design Intelligence Lab for students, teachers, and community stakeholders**

weaves Artificial Intelligence and human centered design or Design Thinking into a new integrated process. The Design Thinking process is used to problem-find and problem- solve in a rapid iterative process. AI is then used to enhance the process but also the scale the innovative solutions students imagine but normally cannot

build, until now. The kickoff of the Design Intelligence Lab and its first project in September 2024 is funded by the Harold KL Castle Foundation and the Public Schools of Hawaii Foundation.

7. **Design for Civic Leadership 5th Annual, for middle and high school student government leaders.** Created in honor of the late Iris Okawa, Public Schools of Hawaii Foundation (PSHF) trustee who believed in creating the next generation of young civic leaders. In partnership with PSHF and the DOE's Student Government Leadership program, student government leaders from public middle and high schools throughout the State of Hawaii gather for an annual bootcamp in September to learn and apply Design Thinking to challenges facing their peers.
8. **Annual Design Thinking Hawaii Summer Bootcamp for the Community.** Thirteen (13) bootcamp since 2011. Each summer since 2011, public and private school educators, students, government employees, private industry, and non-profits gather for two days to learn, apply, and practice the five steps in human-centered design also known as Design Thinking. Design Thinking has become a movement in Hawaii over the years with thousands trained from students to industry executives to government leaders. More than 3K+ teachers trained, over 10K+ have attended a workshop or bootcamp, and over 100K+ students have been exposed to Design Thinking since 2011.
 - a. Client: **Department of Health**, Developmental Disabilities Division. Thirty design teams of educators, students, and community stakeholders were challenged to develop solutions to improve employment rates for individuals with developmental disabilities. June 2016.
9. **DOT and Waipahu High AI Traffic Study**, March to June 2023. Sponsored by NEC America in partnership with Hawaii Dept of Transportation, and 28 high school juniors at Waipahu High School's IT Academy. Challenge: Improve pedestrian safety at Waipahu High School using a human centered design process and next generation AI systems to detect, predict, and prevent accidents. Students in Cindy Takara's period 3 learned how AI systems are trained, and the power of having real-time counts of vehicles, pedestrians, and potential near misses during 10 classes. Students brainstormed questions they would like answered from the system's large amount of data, and used those questions and the Design Thinking process to generate solutions and prototypes they presented to a cross section of industry, government, and community stakeholders. The workforce development question we're answering is "how do we create the careers of the future" by giving students a real-world challenge by a real client, Hawaii Dept of Transportation Highways and Waipahu High School, applying next generation innovations like Artificial Intelligence (AI) by a global innovator, NEC America. [Project Video](#).
10. **Design for Young Pacific Leaders (YPL) Festpac, June 2024.** Four Design Thinking and AI sessions were designed and facilitated for the YPL cohort of young leaders representing 20+ Pacific Island nations. The design challenge focused on sustainability and the impacts of climate change on their island nations. These young leaders were trained in Design Thinking but also in the use of Generative AI to support and enhance the process, including the use of text to image generators to prototype and visualize their solutions.

11. **Applied STEM for Native Hawaiian and minority High School Students a pathway to STEM careers and college, 2022, 2023.** The Hokulani program is part of the Pacific Inclusive Education Research and Resources institute at the University of Hawai'i at Mānoa. The program "supports Native Hawaiian, Pacific Islander and Filipino middle and high school students entering into postsecondary science, technology, engineering, and math (STEM) fields through a culturally responsive, strength- and work-based enrichment program".
 - a. **2023: Seaglidors - the electric flying boat.** Students learned and then created ways to communicate what are Seaglidors pros and cons. Students learned how to use AI to build websites, and create presentations as well as design a workshop to explain what they had learned about Seaglidors, and on how to build a prototype to demonstrate the wing in ground effect of the electric Seaglidors.
 - b. **2022: Applied Coding and Design Thinking - Master Builder / Coding,** Students learned and applied the Design Thinking process to a problem, created solutions and prototypes. Students then learned how to code and build working prototypes in our Master Builder workshop.
12. **Micronesian Student Education & Career Day. Feb 2023** Co-designed and partnered with Shanty Asher, Pacific Island Liaison with the City & County of Honolulu for a one day bootcamp at Waipahu High School's library for ~80 students from eight Micronesian high school clubs on Oahu. The focus of this gathering was to expose students to education and career opportunities, including talks by successful Pacific Islanders who are doctors, pilots, military, law enforcements, and so on.
13. **Design Your Life for Micronesian High Schoolers, 2022.** Co-designed and partnered with Shanty Asher, the Pacific Island Liaison with the City & County of Honolulu for a one day Design Thinking bootcamp at Waipahu High School's library for ~80 students from eight Micronesian high school clubs on Oahu. The challenge was to design your life. The biggest take away was the majority of the students' dream was simply to graduate high school.
14. **Chaminade Environmental Entrepreneurship Class. ENV490 Sustainability Innovation. 2023, 2024.** Guest lecturer for Professor Mariane Uehara's sustainable innovation class. During the class we learn by doing quick design sprints - like creating a name tag for your partner based on a 5 minute interview.
15. **Waipahu Intermediate Future Farmers Student Leadership Workshop, January 2023.** DTH facilitated a one day leadership workshop for student leaders from Waipahu Intermediate who are also award winning future farmers.
16. **PRIMO (2/1/13 – 4/30/13; 1/24/14 – 10/31/19 (reg fees); 10/1/19 – 4/30/20; 10/1/19 – 9/30/20 (reg fees))**
The Pacific Risk Management 'Ohana (PRiMO) began in 2003 as an effort to explore opportunities to enhance communication and collaboration among the 'ohana (or family) of organizations involved in risk and emergency management. Since then, PRiMO has

transformed into a collaborative consortium of local, national, and regional organizations committed to strengthening the resilience of Pacific Island communities to climate and weather-related hazards, including hazardous events such as oil spills and disease outbreaks.

17. **PICHTR planned and coordinated all logistics, registration, and required tasks for the PRiMO Annual Conference. The annual conference is a leading venue for emergency, disaster risk reduction, and hazards professionals to share ideas, strategize, and inform solutions that address the varied challenges facing Pacific Island communities working toward resilience goalCultural Resources Program (Funded by the US Army Corps of Engineers) (12/1/05 – 9/14/19)**

PICHTR was contracted by the U.S. Army Corp of Engineers to provide project assistance to the U.S. Army Garrison Hawaii, who has responsibility, for cultural resources within Army jurisdiction on Oahu, and provides support for management of historic buildings and districts within Army jurisdiction on the ISLAND OF HAWAII. The cultural resources program provides environmental stewardship while supporting readiness. PICHTR provided management, administrative, employment, contracting and procurement functions on behalf of U.S. Army Garrison and Pohakuloa Training Area.

The general objectives of the cultural resources program are:

- a. To eliminate impacts to the military's mission arising from cultural resources issues;
- b. To meet compliance requirements;and
- c. To effectively manage cultural resources.

18. **Natural Resources Program (funded by the U.S. Army Corps of Engineers) (3/6/00 – 9/14/19)**

PICHTR was contracted by the U.S. Army Corp of Engineers to provide project assistance to the Natural Resource Program at U.S. Army Garrison Hawaii that oversees compliance with the Federal Endangered Species Act, Fish and Wildlife Coordination Act, Migratory Bird Treaty Act and the Sikes Act. The goal of the program is to effectively balance the requirements of the Army's training mission with its natural resource responsibilities. PICHTR provided management, administrative, employment, contracting and procurement functions on behalf of U.S. Army Garrison.

Of the 400 federally listed threatened and endangered species in Hawaii, the Natural Resources Program is responsible for managing over 100, including plants, snails, birds, bats, insects and their critical habitat. All of these species are only found within the Hawaiian Islands, many only on a single island, some restricted to certain mountain ranges on an island, and many only on Army lands on Oahu or Hawaii Island.

The endangered plants managed by the Natural Resources Program represent some of the planet's rarest - some having less than 50 individual plants left in the world. Through its efforts, the Natural Resources Program has helped save 2 species from

going extinct.

The Natural Resources Program applies an ecosystem-based approach to managing its training lands to ensure species and the habitat to support them are restored and protected now and in the future. The program grows both endangered and common native plant species and outplants over 2,000 of them back into the wild each year.

Explain firm's individual project assignment, project management structure, project execution (work flow and responsibilities) and quality control process. In the event the spaces provided on this form are not sufficient for entries, or if you wish to furnish additional information, it may be inserted here or on separate sheets, with appropriate references.

As a small non-profit organization, PICHTR has a lean management structure. All projects are under Keith Matsumoto, Programs Director, in collaboration with other principals and consultants. Ian Kitajima, President, has responsibility for corporate quality control, and Janel Pang, VP, CFO & Contracts Officer, has administrative responsibility for fiscal and contractual quality and compliance. Project assignments are based on each individual's unique capabilities and in line with client objectives.

PICHTR has weekly meeting to review project status and identify any challenges and develop mitigation plans. PICHTR's management will allow individual project performers independence to execute projects but will step in as needed to ensure smooth performance and completion of all projects on-time and within budget with all milestones and deliverables completed.

As of this date August 25, 2025 the foregoing is a true statement of facts.

NAME OF FIRM OR INDIVIDUAL SUBMITTING QUESTIONNAIRE

Pacific International Center for High
Technology Research

TYPE NAME AND TITLE OF PERSON SIGNING

Ian Kitajima

SIGNATURE



NOTE: It is to a firm's advantage to maintain its experience record on a current basis. This may be accomplished by periodically forwarding current data to DAGS.

PRINCIPALS ONLY - ADDITIONAL INFORMATION

NAME Ian Kitajima	TITLE AND POSITION President	YEARS WITH FIRM 1.5
MAJOR RESPONSIBILITIES WITH THIS FIRM Please see attached resume for details		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM:	DATE	FIRM:	DATE
	FROM: TO:		FROM: TO:
ADDRESS:		ADDRESS:	
JOB TITLE:		JOB TITLE:	
SUPERVISOR'S NAME AND TITLE:		SUPERVISOR'S NAME AND TITLE:	
MAJOR DUTIES:		MAJOR DUTIES:	

FIRM:	DATE	FIRM:	DATE
	FROM: TO:		FROM: TO:
ADDRESS:		ADDRESS:	
JOB TITLE:		JOB TITLE:	
SUPERVISOR'S NAME AND TITLE:		SUPERVISOR'S NAME AND TITLE:	
MAJOR DUTIES:		MAJOR DUTIES:	

Ian Y. Kitajima
(808) 226-8805, Ian.kitajima@pichtr.org

Experienced and adaptable technology and commercialization executive with over 35 years of experience with entrepreneurship / startups, corporate development / intrapreneurship, technology and business development, marketing, human-centered design, new product development, and community development.

WORK EXPERIENCE

January 2023 – present, President, Pacific International Center for High Technology Research, Honolulu, HI

Create strategic opportunities and partnerships. Provide executive leadership focused on human capital development, partnerships and business development, technology development and commercialization. **Relevant work:** NEC AI Traffic Project with Waipahu High School students. Fourteen years of designing and facilitating Design Thinking workshops for DOE leaders, teachers, students, and community stakeholders.

January 2010 – present, Lead Co-facilitator, Design Thinking Hawaii, Honolulu, HI Co-founder and lead co-facilitator for supporting the marketing and implementation of the design thinking process in organizations, governmental units, schools, and other corporations focused on education, economic development, training, and workforce development. Trained more than 3K+ teachers, facilitated workshops for over 10K+, and over 100K+ students have been exposed to Design Thinking.

June 2001 – December 2022, Director of Corporate Development, Technology Sherpa, Director of Marketing (2001 to 2011), Oceanit Laboratories, Inc., Honolulu, HI Initiate new corporate directions and programs (e.g, Design Thinking, Aloha AI, Nanotechnology, Cosmetics, Community Building), lead novel strategic business opportunities, develop new business models, partnerships, and corporate startups. Lead catalyst/recruiter for leadership hires who later would lead Oceanit into the future. Technology development and commercialization. Co-Founder, Ibis Networks 2013 – 2017; Co-Founder, Nanopoint 2003 – 2005; Founding Member, Hoana Medical, 2001-2004.

August 2000 – May 2001, CEO / CMO, MEET Factory Oy, Helsinki, Finland Provide leadership and strategic direction for a Finnish mobile phone application startup. Venture funded to create virtual communities for mobile phones like Nokia. During this time and for the next 2-3 years, Japan and Finland were the world's leaders in mobile phones.

EDUCATION

Bachelor of Business Administration (double major in Marketing & International, Business), University of Hawaii at Manoa, Honolulu, HI, College of Business Administration. Phi Kappa Phi. (December 1988)

Associate of Arts, Windward Community College, University of Hawaii System, Kaneohe, HI (December 1985)

NAME Keith Matsumoto	TITLE AND POSITION Programs Director	YEARS WITH FIRM 11.5
MAJOR RESPONSIBILITIES WITH THIS FIRM Please see attached resume for details		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM:	DATE FROM: TO:	FIRM:	DATE FROM: TO:
ADDRESS:		ADDRESS:	
JOB TITLE:		JOB TITLE:	
SUPERVISOR'S NAME AND TITLE:		SUPERVISOR'S NAME AND TITLE:	
MAJOR DUTIES:		MAJOR DUTIES:	

FIRM:	DATE FROM: TO:	FIRM:	DATE FROM: TO:
ADDRESS:		ADDRESS:	
JOB TITLE:		JOB TITLE:	
SUPERVISOR'S NAME AND TITLE:		SUPERVISOR'S NAME AND TITLE:	
MAJOR DUTIES:		MAJOR DUTIES:	

Keith T. Matsumoto
(808) 258-9209, keith.matsumoto@pichtr.org

Accomplished executive and consultant with extensive experience in program management, business development, and organizational leadership across diverse sectors. Expertise in strategic planning, federal contracting, and project management for clients in both the private and public sectors.

WORK EXPERIENCE

Program Director

Pacific International Center for High Technology Research – March 2023 - Present

- Provide executive management focused on administration and management of contracts and programs, business development, operations management, technology development, and commercialization.

Administrator / Co-Founder / Lead Facilitator

Design Thinking Hawaii - January 2010 to Present

- Co-founder and administrator for a local non-profit organization supporting the promotion and implementation of the design thinking process in organizations, governmental units, school and other corporations focused on education, economic development, training, and workforce development.

Senior Program/Project Manager

Oceanit Laboratories – June 2020 to February 2023

- Provide project management office oversight for science & technology projects and manage various high profile major programs and projects. Provide federal contracting guidance and support contract management activities. Support the COO for organizational change management related to implementation of a new ERP system, accounting, contracting, procurement, and proposal development.

Acting President & CEO, Chief Operating Officer, Chief Financial Officer

Pacific International Center for High Technology Research - February 1994 to January 2004

- Provide executive management for Not-for-Profit Applied Research & Development organization.

EDUCATION

Doctor of Business Administration, July 2021

Walden University-Minneapolis, MN, College of Management and Technology

Master of Business Administration in Accounting & Operations Management, May 1984

The University of Michigan-Ann Arbor, MI, Ross School of Business

Bachelor of Science in Civil and Urban Engineering, May 1979

The University of Pennsylvania-Philadelphia, PA, College of Engineering and Applied Sciences

NAME Guohui Zhang	TITLE AND POSITION Engineer	YEARS WITH FIRM 0
MAJOR RESPONSIBILITIES WITH THIS FIRM Provide Engineering Services as required - see attached resume		

PRIOR EMPLOYMENT

(START WITH LATEST EMPLOYMENT PRIOR TO JOINING THIS FIRM AND PROVIDE SIMILAR INFORMATION FOR EACH SEPARATE EMPLOYMENT OR MAJOR CHANGES IN DUTIES WITH THE SAME EMPLOYER.)

FIRM:	DATE		FIRM:	DATE	
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ADDRESS:			ADDRESS:		
JOB TITLE:			JOB TITLE:		
SUPERVISOR'S NAME AND TITLE:			SUPERVISOR'S NAME AND TITLE:		
MAJOR DUTIES:			MAJOR DUTIES:		

FIRM:	DATE		FIRM:	DATE	
	FROM:	TO:		FROM:	TO:
ADDRESS:			ADDRESS:		
JOB TITLE:			JOB TITLE:		
SUPERVISOR'S NAME AND TITLE:			SUPERVISOR'S NAME AND TITLE:		
MAJOR DUTIES:			MAJOR DUTIES:		

Guohui Zhang, Ph.D., P.E., F.ASCE

Professor, Department of Civil and Environmental Engineering
Associate Director, Center for Safety Equity in Transportation
University of Hawaii at Manoa, Honolulu, HI 96822
Phone: ((808) 956-7550, Fax: (808) 956-5014
Email: guohui@hawaii.edu

1.1 RESEARCH INTERESTS

- Large-Scale Transportation Systems Modeling and Simulation
- Traffic Flow Theory and Modeling
- Traffic Control and Operations
- Traffic Sensing and Sensor Data Analytics
- Cyber-Transportation Systems and Security
- Transportation Safety and Security
- Connected and Autonomous Vehicle System
- Artificial Intelligence in Transportation

1.2 EDUCATION

- Ph.D. in Civil Engineering Jun. 2008
Department of Civil and Environmental Engineering, University of Washington, Seattle, WA
- M.S. in Systems Engineering Jul. 2003
Department of Automation, Tsinghua University, Beijing, China
- B.S. in Control Engineering Jul. 2000
Department of Control Science and Engineering, Harbin Institute of Technology, Harbin, China

1.3 PROFESSIONAL HISTORY

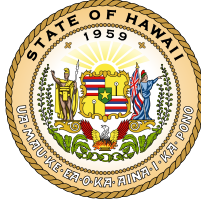
- Professor, Department of Civil and Environmental Engineering, University of Hawaii at Manoa, Honolulu, HI Aug. 2022-Present
- Associate Professor, Department of Civil and Environmental Engineering, University of Hawaii at Manoa, Honolulu, HI Aug. 2018-Aug.2022
- Assistant Professor, Department of Civil and Environmental Engineering, University of Hawaii at Manoa, Honolulu, HI May 2016- Aug. 2018

2.1 RESEARCH PROJECTS

1. Principal Investigator, RAPID/Collaborative Research: Integrated Sociotechnical Investigations of the Compounding Impacts of Maui Wildfires Fueled by Hurricane Dora.
Sponsor: NSF
Funding: \$50,000
Duration: Aug. 2023-Jul. 2024

2. Principal Investigator, Local Technical Assistance Program Development.
Sponsor: Hawaii Department of Transportation
Funding: \$1,260,000
Duration: Jan. 2024-Dec.2026
3. Principal Investigator, Transportation Cybersecurity Center for Advanced Research and Education.
Sponsor: U.S. Department of Transportation
Funding: \$1,50,000
Duration: Aug. 2023-Jul.2028
4. Principal Investigator, Life Cycle Assessments of Asphalts Containing Recycled Plastics in Hawaii
Sponsor: Hawaii Department of Transportation
Funding: \$ 308,880
Duration: Feb. 2023-Jul.2025
5. Principal Investigator, Local Technical Assistance Program Development Sponsor: Hawaii Department of Transportation
Funding: \$ 420,000
Duration: Jan. 2023-Dec. 2023
6. Principal Investigator, Drone-based Computer Vision-Enabled Vehicle Dynamic Safety Performance Monitoring for Crash Prediction in RITI Communities.
Sponsor: Center for Safety Equity in Transportation (CSET), Tier 1 University Transportation Center (66%) and University of Hawaii (34%)
Funding: \$155,000 with Zhang's portion of \$130,000 (83%)
Co-Principal Investigators: Panos Prevedouros, David Ma
Duration: Mar. 2021–Jun. 2022
7. Principal Investigator, Pilot Connected Automated Vehicle System Investigations for Enhanced Safety and Mobility of Seniors and Individuals with Disabilities in Hawaii.
Sponsor: Hawaii Department of Transportation
Funding: \$2,000,000
Duration: Jul. 2022–Jun. 2023
8. Principal Investigator, Applying Artificial Intelligence (AI) Based Signal Coordination and Controls for Optimized Mobility for the Nimitz Highway and Ala Moana Boulevard Arterial in Honolulu.
Sponsor: Oak Ridge National Laboratory, Department of Energy
Funding: \$300,000 with Zhang's portion of \$250,000 (83%)
Co-Principal Investigators: David Ma
Duration: May. 2021–Apr. 2023
9. Principal Investigator, Drone-based Computer Vision-Enabled Vehicle Dynamic Safety Performance Monitoring for Crash Prediction in RITI Communities.
Sponsor: Center for Safety Equity in Transportation (CSET), Tier 1 University Transportation Center (66%) and University of Hawaii (34%)
Funding: \$155,000 with Zhang's portion of \$130,000 (83%)
Co-Principal Investigators: Panos Prevedouros, David Ma
Duration: Mar. 2021–Jun. 2022

10. Co-Principal Investigator, V2X Enabled Interconnected Traffic Control System Innovations on the Nimitz Highway and Ala Moana Boulevard Arterial (Phase II).
Sponsor: Hawaii Department of Transportation
Funding: \$ 388,949 with Zhang's portion of \$194,475 (50%)
Principal Investigator: David Ma
Duration: Mar. 2021–Sep. 2023
11. Principal Investigator, Convolutional Neural Network Learning Approaches for Driver Injury Severity Classification and Application in Single-Vehicle Crashes in RITI Communities.
Sponsor: Center for Safety Equity in Transportation (CSET), Tier 1 University Transportation Center (66%) and University of Hawaii (34%)
Funding: \$134,850 with Zhang's portion of \$114,622 (85%)
Co-Principal Investigators: Panos Prevedouros, David Ma
Duration: Oct. 2020–Sep. 2021
12. Co-Principal Investigator, Assessment of County of Maui Coastal Roads for Effects of Climate Change, Sea Level Rise and Shoreline Erosion
Sponsor: Hawaii Department of Transportation
Funding: \$ 659,085 with Zhang's portion of \$131,817 (20%)
Principal Investigator: Oceana Francis, and Co-Principal Investigators: Horst Brandes, and David Ma
Duration: Aug. 2020–Jul. 2022
13. Principal Investigator, Extracting Rural Crash Injury and Fatality Patterns Due to Changing Climates in RITI Communities Based on Enhanced Data Analysis and Visualization Tools (Phase II).
Sponsor: Center for Safety Equity in Transportation (CSET), Tier 1 University Transportation Center (66%) and University of Hawaii (34%)
Funding: \$350,000 with Zhang's portion of \$300,000 (85%)
Co-Principal Investigators: Panos Prevedouros, David Ma
Duration: Aug. 2019–Jul. 2020



BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS
STATE OF HAWAII
PROFESSIONAL & VOCATIONAL LICENSING DIVISION
DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS
P.O. BOX 3469, HONOLULU, HAWAII 96801-3469

Guohui Zhang
University of Hawaii - Dept of Civil, Environmental & Construction Engineering
2450 Dole Street
Honolulu, HI 96822

01/15/25

NOTICE OF LICENSURE

License Type: PROFESSIONAL ENGINEER
License Number: PE-21346-0

Effective Date: 12/23/24
Expiration Date: 04/30/26

License classifications:

CE Civil

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/s/ Sheena Choy

EXECUTIVE OFFICER



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

08/25/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Brown & Brown Insurance Services, Inc. 1585 Kapiolani Blvd. Ste. 1215 Honolulu HI 96814	CONTACT NAME: PHONE (A/C, No, Ext): (808) 540-3333 FAX (A/C, No): E-MAIL ADDRESS: INSURER(S) AFFORDING COVERAGE INSURER A: Aspen Specialty Insurance Company INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	NAIC #
INSURED Pacific International Center for High Technology Research 1440 Kapiolani Blvd., #1410 Honolulu HI 96814		

COVERAGES**CERTIFICATE NUMBER:** 25-26 COI**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☒ POLICY ☐ PROJECT ☐ LOC ☐ OTHER:			ERA840525 This insurance contract is issued by an insurer which is not licensed by the State of Hawaii and is not subject to its regulation or examination. If the insurer is found insolvent, claims under this contract are not covered by any guaranty fund of the State of Hawaii. Brown & Brown Insurance Services, Inc., 1585 Kapiolani Blvd., Ste. 1215, Honolulu, HI 96814. National Producer Number: 963257.	02/15/2025	02/15/2026	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☒ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY			ERA840525 This insurance contract is issued by an insurer which is not licensed by the State of Hawaii and is not subject to its regulation or examination. If the insurer is found insolvent, claims under this contract are not covered by any guaranty fund of the State of Hawaii. Br Br sura ce Services, c., 1585 Kapi lanl Blvd., Ste. 1215, H n iulu, HI 96814. National Producer Number: 963257.	02/15/2025	02/15/2026	COMBINED SINGLE LIMIT (Ea accide t) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) ☐ Y / N If yes, describe under DESCRIPTION OF OPERATIONS below			N / A			
A	Professional Liability			ERA840525 This insurance contract is issued by an insurer which is not licensed by the State of Hawaii and is not subject to its regulation or examination. If the insurer is found insolvent, claims under this contract are not covered by any guaranty fund of the State of Hawaii. Brown & Brown Insurance Services, Inc., 1585 Kapiolani Blvd., Ste. 1215, Honolulu, HI 96814. National Producer Number: 963257.	02/15/2025	02/15/2026	Each occurrence: \$1,000,000 Aggregate: \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

PROOF OF INSURANCE

CERTIFICATE HOLDER**CANCELLATION**County of Hawaii
25 Aupuni Street, Suite 1301
Hilo, HI 96720

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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