

## HOLMES IS WHERE THE HEART IS.

From current students to alumni to parents of students here are a few testimonies shared by those that experienced it first-hand, right here at Holmes Hall, where the College of Engineering is located.

### CIVIL AND ENVIRONMENTAL ENGINEERING

"What made the UHM CoE special for me is the support system within the college that really made Holmes Hall feel like home. By giving undergraduates access to the labs for project activities, providing us with study spaces, and supporting clubs such as the American Society of Civil Engineers (ASCE), the college gives students the tools that we need to grow as leaders, engineers, and individuals."



**LEAH MIYASATO**  
(BS) Class of 2018

### ELECTRICAL ENGINEERING

"UHM CoE allowed me to stay close to family, while I made new friends and earned a quality education for a very affordable price. Whether it was studying like crazy with friends, fundraising for engineering societies or working on the next greatest invention with project teammates, there is a unique "aloha" factor and "ohana" mentality that makes UHM CoE very special."



**CARO KITAMURA**  
(BS) Class of 2013

### ELECTRICAL ENGINEERING

"I owe much of my success to my involvement and experience at UHM. I was fortunate to be paired with Dr. Wayne Shiroma who served as my advisor and provided me an opportunity to work on the nanosatellite, Ho'oponopono 2. Through this research, I found my passion in RF/Microwave engineering and continued as a graduate student under Dr. Shiroma and Dr. Ohta. During that time, I was able to publish several papers, journals, attend conferences, and travel the world presenting our research. My experiences at UHM laid the foundation for my career at Northrop Grumman designing integrated circuits and communication system hardware for airborne and space platforms. I am so grateful for all the friends and connections that I've made throughout my time at UHM and for helping me get to where I am today."



**ANDY MORISHITA**  
(BS) Class of 2012  
(MS) Class of 2014

### MECHANICAL ENGINEERING

"I chose to stay and attend the University of Hawai'i at Mānoa for undergraduate to do a hands-on engineering project early in college, which is something I might not be able to do at another school until senior year for senior project. I had the opportunity to obtain an internship with NASA where I will be working on drones under the guidance of Dr. Ippolito and Dr. Pagaduan."



**EVAN KAWAMURA**  
(BS) Class of 2016

### A PARENT'S PERSPECTIVE

"It doesn't seem that long ago when [my daughter] was a member of your Summer Intern Program for high school students; now she is a graduated engineer. She was certainly one of those with no idea about what to do in college. That summer program helped steer her in the right direction. Additionally, your first year housing program for engineers at Johnson Hall was a phenomenal idea. It kept her and her peers connected to engineering, rather than just being freshman on campus taking on that rigorous engineering curriculum by themselves."



**GARY CHUN**  
College of Engineering Parent



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# COLLEGE OF ENGINEERING

Inspired by the principles of sustainability and resilience.



UNIVERSITY of HAWAI'I®  
MĀNOA

# THERE'S NO PLACE LIKE HOLMES

The UH Mānoa College of Engineering is an indispensable facet of sustainable living in Hawai'i and the Asia-Pacific region. It is recognized as leading the development of innovative solutions to meet the increasingly complex needs of our society.



126  
Graduate Students



Over \$340,000 was awarded by the College last year in scholarships.

To date, the College has awarded over 10,600 engineering degrees (BS, MS, and PhD).



1,376  
Undergraduate Students



The College operates a Career Fair for its students every Fall and Spring semester with approximately 70 companies and organizations in attendance, representing both Hawai'i companies and some larger employers from the West Coast of the US mainland.

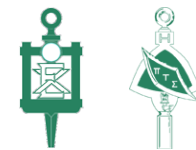


60  
Faculty Members



Research expenditures from external funding sources has risen from approximately \$4 million to \$8.4 million per year.

10  
Student Organizations



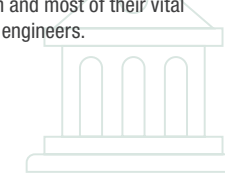
\* Based on SY 2016-2017 facts provided by the UH Mānoa College of Engineering. For more information, visit [www.eng.hawaii.edu/about/facts](http://www.eng.hawaii.edu/about/facts)

## CIVIL & ENVIRONMENTAL

Civil and Environmental Engineering (CEE) focuses on the activities of people and their interaction with the environment.

The civil engineer conceives, plans, designs, constructs, operates, and maintains buildings, bridges, highways, airports, railways, tunnels, waterways ports and harbors, dams, water supply and wastewater treatment systems, and earthworks. Important considerations of the civil engineer in providing infrastructure and buildings is improved health and safety for people, minimized impact to the environment, sensitivity to costs and resources, and overall sustainability. Civil engineering continuously improves its methods and each new or upgraded component improves the standard of living for large populations. The cities we live in and most of their vital infrastructure are the creation of civil engineers.

[www.cee.hawaii.edu](http://www.cee.hawaii.edu)  
BS, MS, PhD



## ELECTRICAL

Electrical engineering and computer engineering are concerned with the exciting fields of electronics, computers, information technology, and the basic forms of energy that run our world.

Electronics continue to bring forth new breakthroughs in solid-state technology (transistors, integrated circuits, VLSI chips, microprocessors, lasers, optical fibers), which in turn fuel the unprecedented revolution in telecommunications (internet, wireless, and digital signal processing), computers (software, security, and networking), instrumentation (biomedical, intelligent), and many other areas.

[www.ee.hawaii.edu](http://www.ee.hawaii.edu)  
BS, MS, PhD



## MECHANICAL

Mechanical Engineering (ME) is a broad and diverse engineering discipline that concerns the design and manufacturing of virtually everything, from small devices to large systems.

Mechanical engineers play a central role in such industries as automotive, aerospace, biomedical, microelectronics, computers, power generation and energy conversion, renewable energy, HVAC, automation and robotics, and materials and manufacturing. Mechanical Engineering students receive formal education about materials, solid and fluid mechanics, thermodynamics, heat transfer, control, instrumentation, design, machinery, and manufacturing in school. Their education in the ME department will also provide them with such skills as creative thinking, analytical tools, problem solving, and teamwork. These valuable skills could help the ME students to launch a career beyond some of the industries listed above, including consulting, marketing, management, banking, finance, and government agencies.

[www.me.hawaii.edu](http://www.me.hawaii.edu)  
BS, MS, PhD



## COMPUTER

Computer engineers design and apply computers to solve engineering problems. The discipline of computer engineering covers computer software and hardware, as well as their integration.

It is a rapidly changing field that requires engineers to continually acquire new knowledge and skills. Areas of specialization include software development, embedded systems and microcontrollers, cybersecurity, computer hardware circuits, mobile computing, cloud computing, big data, and networking.

[www.ee.hawaii.edu](http://www.ee.hawaii.edu)  
BS



## ENGINEERING SCIENCE

The Engineering Science program provides opportunities for quality education, research, and service in engineering disciplines that are not covered by the other college programs.

Special focus is given to emerging areas and providing an inter-disciplinary education. Currently, the program offers concentrations in two areas: aerospace engineering and biomedical engineering. We seek to promote research, leadership, and service among our graduates, emphasizing the evolving nature of how engineering contributes to society.

[www.es.hawaii.edu](http://www.es.hawaii.edu)  
BS

