



JEN-HSUN HUANG ENGINEERING CENTER SELF-GUIDED TOUR

Welcome to the Jen-Hsun Huang Engineering Center, home of the Stanford University School of Engineering. The center, which represents the state of the art of building design, is a gathering place for today's students as well as a tribute to the heroes of Stanford Engineering—people who have reshaped our world.

Please use this brochure to tour this remarkable new space. You will find convenient, easy-to-follow maps to help you locate classrooms, conference rooms, offices and the many exhibits throughout the building. *Enjoy your visit.*

TERRACE LEVEL

Visitors to the Huang Engineering Center can step down to the terrace level from the exterior by way of a series of grassy tiers that also serve as an outdoor amphitheater, or from the interior by way of a dramatic bamboo-and-concrete staircase. The terrace level is the gathering place for students, executive education and industry gatherings.

Here you will find the 300-seat NVIDIA auditorium. The very first Google server is here, too, with its processors and hard drives encased in multi-hued Lego™ blocks and translucent plastic. You can visit a replica of the famous garage where William Hewlett and David Packard invented the audio oscillator. And of course there is the "Heroes' Wall," where the names and faces of Stanford's most revered engineers remind current students and faculty of the promise their lives as engineers may hold.



A The Shop—Product Realization Lab



B NVIDIA Auditorium



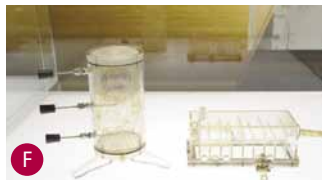
C Google Server



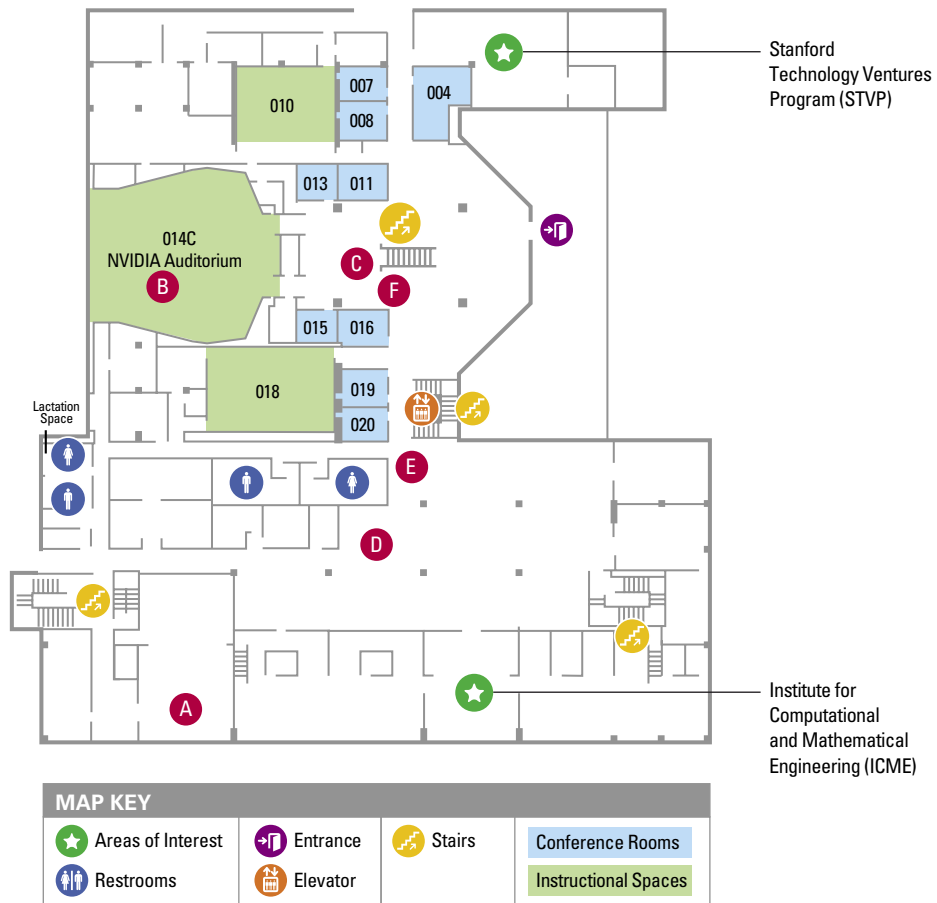
D
HP garage replica



E
Heroes' Wall



F
Anaerobic Bio-reactors





A Wormhole video link to MIT



B Open-air arcade

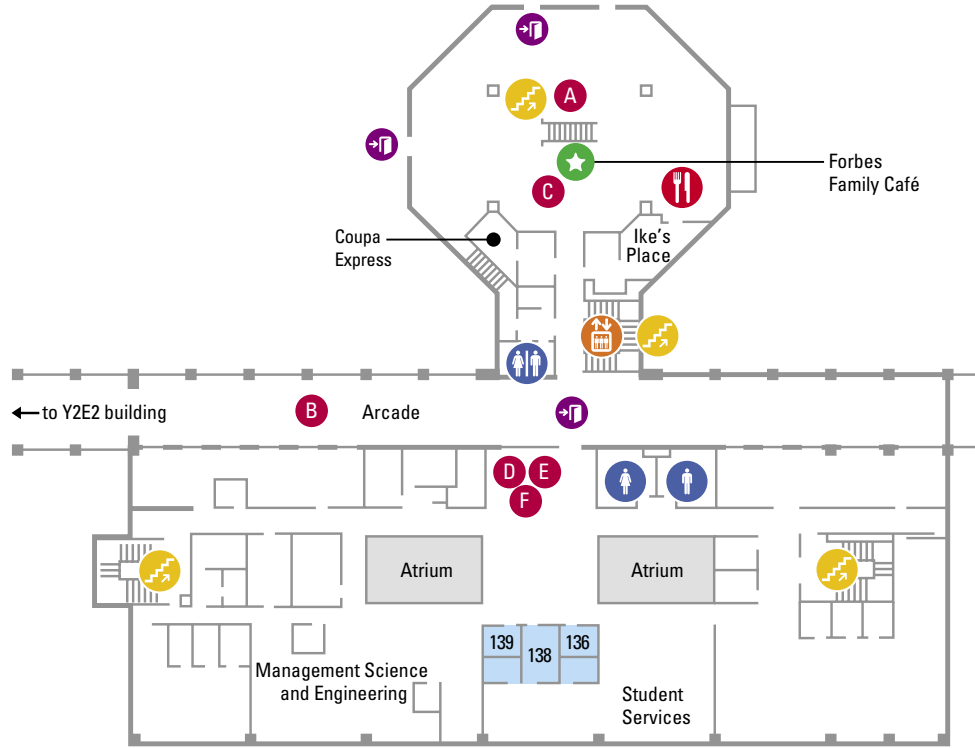


C Forbes Family Café







FIRST FLOOR

On the first floor of the Huang Engineering Center you will find the Forbes Family Café, home of the beloved Ike's Place and the Coupa Express coffee stand. Walk across the open-air arcade and you will discover a display area featuring notable Silicon Valley technologies created at Stanford Engineering. Here is an NVIDIA GeForce GTX 480—one of the first graphics processing units (GPU) which revolutionized computer graphics. There is an original Yahoo! server that helped organize the early World Wide Web. Nearby is a Cisco router, and the first DSL and Ethernet cards—all Stanford innovations that transformed computer networking.

Then, just to show that Stanford Engineering is a hub as much for ideas as things, you will find noted textbooks—including *The Art of Computer Programming*, a towering and still-growing work begun in 1962 by Professor Emeritus Donald Knuth.



MAP KEY

 Areas of Interest	 Cafeteria	 Stairs	Conference Rooms
 Restrooms	 Elevator	 Entrance	



D NVIDIA GeForce GTX 480



E Donald Knuth textbooks



F Original Yahoo! servers

SECOND FLOOR

The second floor of the Huang Engineering Center is home to the Frederick Terman Engineering Library—the famous “library without books.” The innovative library reduces the space and cost of maintaining tens of thousands of volumes by keeping on-site only those checked out in the last five years. All journals are available online and the remaining books are either digitized for online viewing or hard copies that can be ordered for delivery the next day.

Other features on the second floor include the Deans’ Wall, which pays tribute to the eight men who have served as School of Engineering deans. Two additional walls highlight the Endowed Chairholders and the esteemed emeritus faculty who have graced the halls of Stanford Engineering.

Displays on the second floor include images from early nanoscale work, several volumes of aeronautic theory penned by Engineering Hero William Durand, and a row of his hand-carved wooden propeller prototypes, which remain as beautiful today as when first created.

Durand Propeller

In 1916, with support from NASA’s
and Everett P. Lesley embarked
fundamental application in aeronautics
wind tunnel and measured the performance
propellers. Their rigorous and con

A Durand Propeller



B Terman Library



C Deans' Wall



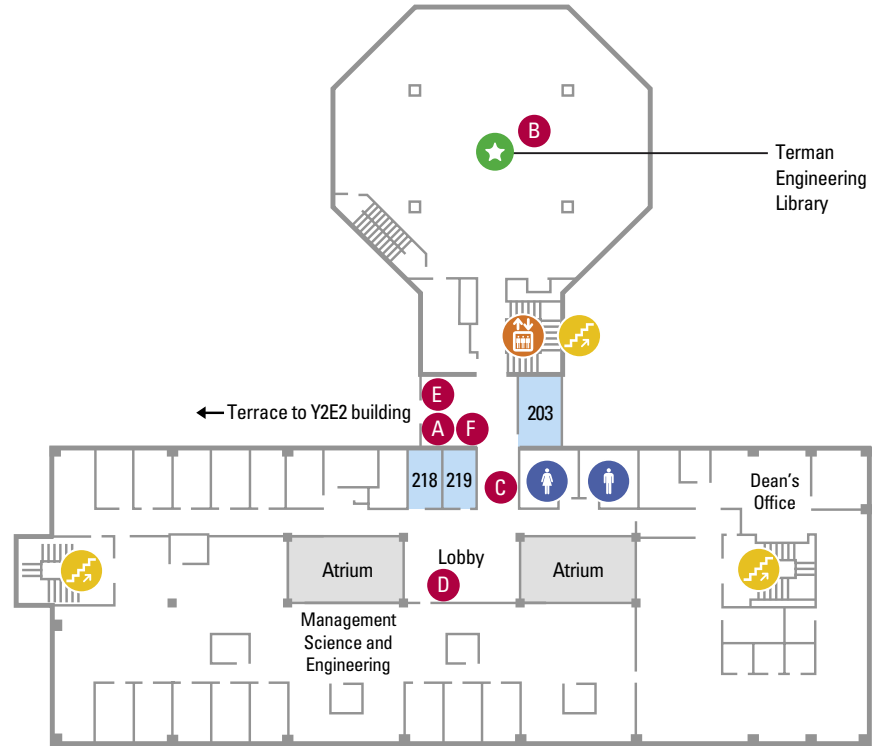
D
Faculty Emeriti



E
Endowed Chairholders



F
Nanocharacterization



MAP KEY



Areas of Interest



Stairs

Conference Rooms



Restrooms



Elevator



A Mackenzie Terrace



B Donors' Wall

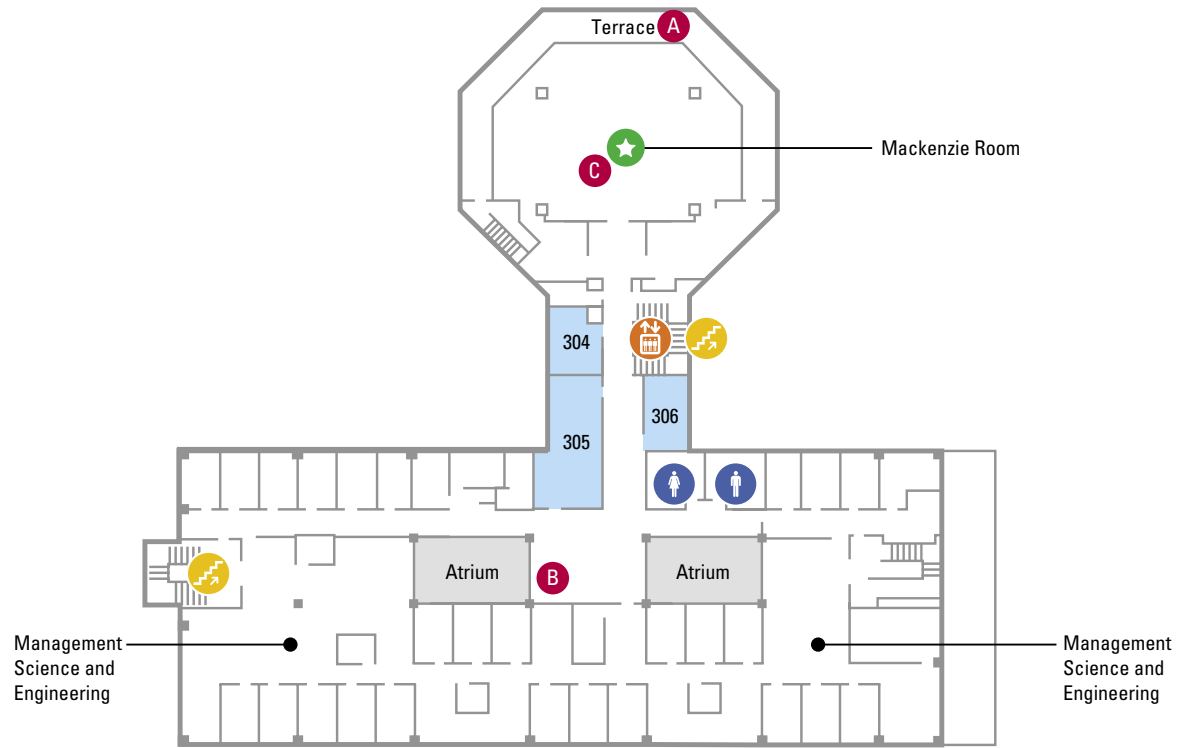




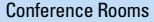


C Mackenzie Room

THIRD FLOOR

The third floor of the Huang Engineering Center is home to the Mackenzie Room, a versatile boardroom setting that can be reconfigured for conferences and important gatherings.

The exterior balcony that wraps the Mackenzie Room provides a commanding view of the Science and Engineering Quad as well as a look down the palm-lined lane to Stanford's iconic main quad and the Hoover Tower beyond.



MAP KEY		
 Areas of Interest	 Stairs	 Conference Rooms
 Restrooms	 Elevator	

EXTERIOR FEATURES

The exterior of the Huang Engineering Center is where past and future meet. The arch-lined arcades and the red-tiled roofs—with dimensions, angles and materials harkening to the university's original quad—hint at the tremendous legacy to which all at Stanford Engineering aspire.

The rest of the building is about the future. As part of Stanford Engineering's commitment to sustainable living, the Huang Center has many efficiency and sustainability features integrated into the design. The center uses just half the power—and one-tenth the water—of a building of comparable size. You can see many of the sustainability technologies from the exterior of the building.



Solar Panels



Traditional Sandstone Facade



Energy-efficient Design



The light-toned tiles lining the courtyard help reflect and dissipate heat in warmer months. On the roof of the south-facing side are banks of solar panels that help power the building. From the ground level, you can see the windows of the atria—the “lungs of the building”—peeking above the roofline. These windows serve dual roles, funneling natural light to the deepest reaches of the building, and as ventilation by which to swap warm air for cool during the night.

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Stanford University School of Engineering

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