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COURTESY MAD ARCHITECTS

Faraday Future's Far Out Campus

MAD ARCHITECTS DESIGNS 215,000-SQUARE-FOOT HEADQUARTERS FOR FARADAY FUTURE IN CALIFORNIA.

Beijing, China-based MAD Architects have unveiled designs for a futuristic corporate campus created to house electric car manufacturer Faraday Future (FF).

The so-called FF Zeus Campus project will be contained within a pair of two-story buildings on Mare Island, a land mass ad-

jacent to the Napa River in Northern California. The 215,000-square-foot complex punctuates a 32.12-acre former naval base and will house research, development, and manufacturing facilities for the company, as well as a series of publicly accessible outdoor spaces, trails, **continued on page 7**



COURTESY HI-SEAS

The Architect's Guide to the Galaxy

BUILDING FOR MARS AND THE FUTURE OF ASTRONAUT-ARCHITECTS.

Since the beginning of civilization, architects have kept themselves primarily pre-occupied with the buildings and structures here on planet earth. But with Elon Musk

predicting that humans will reach Mars in 2025, perhaps it is time to consider architecture abroad—very, very abroad. What zoning requirements will exist on the Red Planet? What materials are there? What tools are needed? In short—what should we consider when planning for Martian architecture?

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Island Life

Right now, engineers, scientists, and officials from one country in the South Pacific are hashing out a seastead. The movement is an ambitious experiment in aquatic living

that's shaped by libertarian dreams, a pragmatic response to climate change, and a novel architectural experiment. "Seasteaders want **continued on page 22**



COURTESY EMBARK

Autobots

As of 2015, over 70 percent of all freight transported in the U.S. was moved by truck. That represents roughly \$726 billion in gross revenues from trucking. Each

year trucks haul everything from consumer goods to livestock over billions of miles in the United States, and all of those numbers are growing—so much so, that according to the American Trucking Associations, the industry is running **continued on page 10**

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COURTESY HI-SEAS

The HI-SEAS habitat geodesic dome by Pacific Domes International is used to carry out Earth-based Mars simulations in Hawaii.

The Architect's Guide to the Galaxy continued from front page The Hawaii Space Exploration Analog and Simulation (HI-SEAS) program is attempting to answer these questions. In August 2016, HI-SEAS concluded the 12-month Mission IV, NASA's longest Earth-based Mars simulation. Funded by NASA and carried out by the University of Hawaii at Manoa campus, the program's main focus is on behavioral research, particularly the psychological and psychosocial changes that would occur in the crew during these grueling, isolating missions. But along with that research, HI-SEAS also offers opportunities to study extraterrestrial architectural possibilities and how design can impact the quality of life to, from, and on other planets.

The HI-SEAS habitat itself is a prefab geodesic dome by Pacific Domes International, an open concept design by Blue Planet Research. The structure has a habitable volume of approximately 13,000 cubic feet, which translates to approximately 1,800 square feet across the main floor, second floor loft, and a workshop in an adjacent 20-foot-long steel shipping container. The double-height main living area contains a kitchen, laboratory, bathroom, simulated airlock, storage unit, dining room, public area, and telemetry room. On the second floor are six bedrooms and a half-bath. A 10kW solar array on the building's south side and backup hydrogen fuel cell generator provide energy; a propane generator can be used in the event both systems are down. Water is stored in two 500-gallon potable water tanks (refilled once a month or so), and waste water is stored in two 250-gallon gray water tanks.

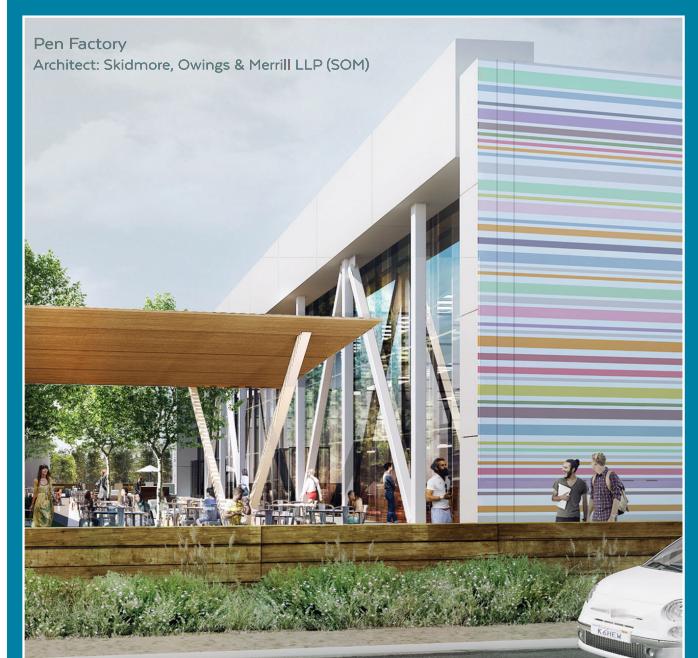
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