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After the Solar Decathlon: Creating A New Design-Build Program

Eric Weber
University of Nevada, Las Vegas, eric.weber@unlv.edu

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After the Solar Decathlon: creating a new design-build program

Eric Weber
University of Nevada, Las Vegas

Abstract

The School of Architecture’s intent was to use the Solar Decathlon as a catalyst for creating a new Design Build program. The project allowed the School to leverage support into acquiring tools & equipment essential to creating the house, and for upgrading the school’s shop facilities. The projects completed immediately following the Solar Decathlon utilized both digital fabrication and prefabrication. This is significant because the School intends to leverage both of these competencies, developed during the Solar Decathlon, in order to further the School’s craft-based pedagogy.

Due to the Design-Build Studio’s development of the Solar Decathlon house, there has been significant interest from multiple parties to leverage this offsite-construction experience to create projects that would benefit from these lessons. Despite the team’s tremendous success, finishing in second overall, and as the only U.S. team to finish in the top three, translating this interest into viable projects has taken significantly more time and effort than expected. The Design Build Studio’s faculty coordinator vetted interested parties, as well as actively searching for projects that fit the program’s mission.

The School of Architecture serves the functions normally associated with land grant universities. It is the sole architectural program in the state, and its mission is to work for the benefit of the state’s residents. The Design Build Studio’s mission includes assisting residents in connecting to the natural resources, wildlife, and ecosystems. In January 2015, the Design Build Studio began work on a project for the State Parks Division, a ticket booth for the Lake Tahoe Shakespeare Festival. The Festival is an annual event at Sand Harbor State Park, the busiest location in the state park system. The project, while small, is in a highly public environment, and serves as an opportunity to showcase the Studio’s capability to work in diverse environmental conditions.

Representatives of the State Parks Division have expressed an interest in developing a long-term relationship, with the Design-Build Studio developing projects across the state. Future projects are anticipated to include guest cabins, ramadas, viewing platforms, and other projects that enrich visitor experiences at the parks. This relationship is an ideal partnership, leveraging the Design-Build Studio’s prefabrication skills and social/environmental focus while meeting the Parks Division’s needs. If the first project is successful, this partnership will be the catalyst that creates a sustainable future for the Design Build Studio.
The School of Architecture Studio has been using the School Decathlon as a case study for teaching, exploring, and developing new design-build projects. The program, known as TINY TEDS, began in the fall of 2014 with the focus on creating a new design-build program for the School of Architecture. The project aimed to address the needs of the School of Architecture Studio by providing a new space for student gatherings, reviews, and presentations. The project was intended to be a hands-on learning experience that would help students develop critical thinking and problem-solving skills.

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The project was designed to be a sustainable and measurable gathering space for students, faculty, and visitors. It was designed to be an extension of the School of Architecture Studio, providing a new space for student gatherings and reviews. The project was intended to be a hands-on learning experience that would help students develop critical thinking and problem-solving skills.

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