PORTFOLIO: CREATIVE PRACTICE

PROFESSIONAL PRACTICE PROJECTS

Founders’ Room, Disney Concert Hall, Los Angeles, CA
with Gehry Partners, LLP
1999, opened 2003

Untitled Sculpture for Gemini G.E.L., Los Angeles, CA
with Gehry Partners, LLP
fabricated 1999-2000

Museum of Tolerance, Jerusalem, Israel
with Gehry Partners, LLP
work through CDs 2000-2, unbuilt

Lewis Library, Princeton University, NJ
with Gehry Partners, LLP
work through CDs 2003-4, opened 2008

Paradise Street Project, Liverpool, England
with Pelli Clarke Pelli Architects
work through CDs 2004-6, opened 2008

The Boardroom, Hermosa Beach, CA
with SHoP Architects PC
work through CDs 2006-8, unbuilt

Rector Street Bridge 02, New York, NY
with SHoP Architects PC
work through CDs 2007, unbuilt

The NoMad Hotel, New York, NY
with SHoP Architects PC
work through DD 2008, unbuilt

Ordos Museum, Ordos, Mongolia
with M+D as facade consultants to MAD Architects, Beijing, China
facade consultation 2009-10, opened 2011

Biosphere 2, LEO Project, University of Arizona, AZ
with Susannah Dickinson Architect
fabricated 2011

Privacy Screen, Arizona*
Completed work through DD with Susannah Dickinson Architect
* project not shown due to client confidentiality issues
work completed 2011-2, unbuilt

all the following images are courtesy of the respective firms and organizations mentioned above
Worked with Gaston Nogues to design a prototype for Gemini, G.E.L., from the previous Frank Gehry ‘Horse’s Head’ form. Working directly with Frank Gehry, this sculpture was designed for the Gemini Art Gallery in Los Angeles. It was the prototype to produce another 12 unique copies.

Dimensions: 30” x 46” x 62”

$50,000.00 each

Full Scale Formwork
gatorboard vivisection model, bond-o, release agent

laminated fiberglass cloth and resin
The Museum of Tolerance
Jerusalem, Israel
Frank O. Gehry & Associates

The Museum is a 240,000 square foot complex comprising a Grand Hall, Museum, 500 seat Theater, Lecture and Conference Center including a Library and Research Facilities. Member of the design team from masterplanning through construction document phases. This project’s unorthodox design for a museum consisted of individual building elements. I was given the responsibility of coordinating the Theater, one of the individual buildings within the larger context. This coordination included developing the program of the theater with the client, acoustician and AV consultant. Project-wide, I coordinated the entire MEP working with Matthias Schuler (Transsolar). Technically, many of the challenges came from using a high amount of glazing in such an arid climate.
The Science Library is a 87,000 square foot project bringing together, under one roof, the Biology, Chemistry, Geoscience and Map/GIS Libraries. In addition to the physical cataloging of books, manuscripts etc., there is also a wide variety of electronic resources.

With various responsibilities in the team, my lead role in organizing and modeling the Master CATIA Model included the responsibility of training my team and various consultants to use CATIA. The parametric modeling features in CATIA V5 allowed us to update changes to the model during the various project phases. The final model became part of the Construction Documents Set.

CATIA Model
From Left to Right: Wireframe Geometry, Developable Surface Geometry, Structural Geometry

CATIA Model
From Left to Right: Concrete Model, Steel Structure, CMU Model, Brick Model, Mechanical Systems, Metal Skin, Glazing, Interior Surfaces.

Photograph of Completed Building
The Paradise Project is a large retail-led, mixed use development with areas of varying character both in scale and use – comprising six districts, each with its own distinctive character. The Park, a large scale urban design for the City of Liverpool compliments and provides links for the Waterfront and Albert Dock, containing the Tate of the North. Essentially a ‘green’ roof, the urban park will provide one of the City’s principal green spaces. Terracing up from Strand Street, culminating in a series of pavilions and a grand terrace. Under the Park are 2,000 new car parking spaces with direct access to the shopping area. Also worked on Site 12, the residential tower on the west side of the park.
The Board Room
Hermosa Beach, California
SHoP Architects

Located a few blocks from the beach in Hermosa Beach, these office units are designed to attract a demographic of young professionals with active lifestyles such as surfing, biking, etc. The courtyard scheme allows light to pour into the interior spaces of the building. As lead designer and project architect, my responsibilities included leading a team of architects to complete a full set of construction documents. Capitalizing on BIM technology, this set of drawings was one of the first projects in SHoP’s office to be done entirely in REVIT. This allowed the team to update drawings quickly and efficiently while minimizing error.
Rector Street Bridge 02
New York, New York
SHoP Architects

This bridge for Battery Park City is a temporary replacement for the previous temporary bridge designed by SHoP Architects after the events of 9/11. This pedestrian bridge explores structural logics of natural branching systems. By abstracting branching rules, the design team explored versions of branching patterns and geometrical configurations.
The NoMad Hotel
New York, New York
SHoP Architects

Located in the Madison Square North Historic District at the intersection of 28th Street and Broadway the project site includes the 15 story Johnston Building, a four story townhouse and the construction of a new 15 story building. For the new building it was necessary to relate in size, color and material to the existing buildings, but it was unique and reflective of its time, utilizing digital fabrication techniques to create a modern 'ornament'.

Typical Hotel Room Layouts
The design objective for the small rooms was to open up the bathroom to as much natural light as possible with a partial height Screen Wall
The Ordos Museum

Ordos, Mongolia
M+D Studio (Melendez + Dickinson), hired as facade consultants by MAD Architects

Hired by MAD Architects in Beijing, China, M+D Studio developed a parametric model in CATIA of the exterior surface and generated various louver designs for the exterior cladding of the Ordos Museum. The design intent was to create a gradient of gaps that were narrow at pedestrian level and increased with the building height. This reduced the amount of cladding material while creating a rhythmic effect of louvers that flowed around the organic building form designed by MAD Architects. The potency of this parametric model allowed for various louver designs to update automatically as changes to the overall form were being made. The parametric model also allowed for quick adjustments to louver dimensions as fabrication information was developed.
Biosphere 2
University of Arizona, Tucson, AZ
Susannah Dickinson Architect
Primary Student Employees:
James Carrico, David Kim and Sheehan Wachter

Principal Investigator for exhibit design for LEO Project (Landscape Evolution Observatory). This long term inter-disciplinary experiment will predict how the water cycle responds to climate change. As the experiment is so long term the exhibit was deemed necessary as a tool to communicate to the public what the final construction would resemble. Funding was for student wages, models, renderings, digital fabrication. Exhibit is permanently on display at the Biosphere 2.

Rendering of LEO project with slopes at various stages of growth

Existing photos of biosphere section where LEO project is beginning to be installed

Rendering of slope, embedded with sensors to track hydration. Personnel transporter above allows for access to plants without standing on soil

Installing Physical Model at Biosphere 2

Above. Physical Model process photos. Below: Final images of Physical Model

Existing photos of biosphere section where LEO project is beginning to be installed

Rendering of slope, embedded with sensors to track hydration. Personnel transporter above allows for access to plants without standing on soil