architectural design
undergraduate
portfolio
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The purpose of this third semester project was to research about a particular architect, in this case Jorn Utzon, and then design a front façade with the influence of that architect's style. After researching, I realized the most prominent feature of Utzom's style is repetition. In order to design "in the manner of" Jorn Utzon, I designed this façade with dominate vertical and horizontal repetition. This was accomplished with the use of pilasters and overhangs for a covered walk.
The central commons area at Alfred State College has been an underutilized space since it was created. The objective of this project was to redesign the area in order to create a more successful and usable space. In order to achieve this, I reconfigured the circulation of the space in order to create more private areas in front of the library and a central gathering area with two monumental stairways. By removing trees from around the bell tower and replacing them with flower beds, the bell tower now becomes more of a prominent feature in the center of campus.
SORRENTO VISITORS CENTER

Sorrento, Italy

The building was inspired by the location of the site and the ruins of the Villa di Pollio Felice. The Villa di Pollio Felice was a Roman villa built at the tip of a small peninsula in Sorrento. The remaining ruins are one of the most popular spots for both locals and tourists. This design was inspired by a remaining column on the site and how the remaining stone is in a banded pattern. This banding is represented on the large vertical element of this design. By creating the traditional vertical element encased in a modern shape, the building represents how Sorrento can be redefined. Because of the large swooping elements the visitors are directed towards all surrounding areas of importance, including the ruins, the view of Sorrento, and the view of Mount Vesuvius.
1. Lobby
2. Multi-Media
3. Viewing Area/Events
4. Giftshop
5. Men’s Restroom
6. Women’s Restroom
7. Break Room
8. Curator’s Office
9. Administrator’s Office
10. Reception
11. Conference Room
12. Gallery
13. Library
14. Outdoor Balcony
With new the use of new technology, libraries are moving away from being just book reserves and becoming more orientated toward community centers. With the design of a new library, the entire community should be drawn to the building for a more than books. This design is placed in downtown Rochester, N.Y., directly adjacent to the Genesee River. By pushing the building to the northeast corner of the site an outdoor plaza along the river was able to be created. The large expanse of glass on the north side of the building was created for two reasons. The first reason being to allow for natural light to fill the space. While the second reason was to use the colored extrusions to catch the attention of the people passing by and allow them to see the activity going on inside.
MARINA PICCOLA PORT
Sorrento, Italy
The Sorrento Port Project was a group project split between four people. The two main focuses of my design were on creating an iconic lighthouse that would redefine the port, and on a two-storied walkway in order to create a new piazza-like space and as the main viewing area for the port. By creating a series of canopies ending with a strong geometric lighthouse, a new skyline is created resembling waves crashing against the cliffs. With these two new features located in a heavy traffic area not only would these designs reshape the port they would redefine Sorrento.
The Houses For Change project was an international Design Competition that a team four students including myself entered in the fall of 2013. The purpose of the competition is to consider housing as an urgent and basic component of improving urban environments for the poor and at risk and to propose viable housing alternatives for those often neglected or left out. My team of chose Tegucigalpa, Honduras as our site because it is the largest city in the country with a population of 1.1 million people. In Honduras, 65% of the people live below the poverty line and 23% of the people are malnourished. Our design focused on creating a sense of community and ownership with in proposed complex as well as the idea of expandability. I focused on the layout of the spaces and creating the areas where the interior space could be expanded.
LEVEL 1

- Kitchen / Living
- Bathroom

LEVEL 2

- Outdoor / Expandable Living
- Sleeping Area
The purpose of this design competition was to create a conceptual design proposal for three chic, urban apartments that exude the highest standard of sustainability, comfort and aesthetic. The proposed apartments at 103 Anderson Avenue in Rochester, New York would support the ongoing urban rehabilitation effort in the Neighborhood of the Arts. This design was focused on an open loft concept. The large curtain glass windows allowed for natural light to flood into all three apartments. The main sustainability aspect of this design was solar collection. The saw-tooth roof is pitched at 43 degrees in order to maximize the collection.

Sustainable Design
Fall 2014
ENTRY (48 S.F)
- TRANSITION SPACE FROM EXTERIOR TO INTERIOR
- BENCH AREA
- COAT RACKS

KITCHEN (126 S.F)
- CENTRAL LOCATION
- BAR SEATING FOR EATING AREA
- OPEN PLAN CONNECTED TO LIVING AREA

LIVING AREA (288 S.F)
- OPEN TWO STORY SPACE NEAR CURTAIN WALL
- CURTAIN WALL LIGHTS BOTH LEVELS
- PLANTER BOX ON THE OUTSIDE OF CURTAIN WALL TO OXYGENATE THE SPACE
- READING NOOK BENEATH STAIRS

POWDER ROOM (52 S.F)
- LOCATED NEAR KITCHEN AND LIVING AREAS

MECH./STORAGE (73 S.F)
- WASHER AND DRYER
- HOUSING FOR FURNACE AND WATER HEATER
- ENOUGH SPACE FOR SUSTAINABLE SYSTEMS
- AMPLE STORAGE

LEVEL 1
MASTER BEDROOM (216 S.F)
- LOFTED BEDROOM LOOKS OVER LIVING AREA
- SITTING AREA NEAR STAIRS
- VIEW THROUGH CURTAIN WALL
  - BED IS OUT OF VIEW FROM CURTAIN WALL

MASTER BATH (96 S.F)
- DOUBLE SINK
- LARGE 5'X4' SHOWER

WALK-IN CLOSET (64 S.F)
- SOLATUBE IN CENTER OF SPACE FOR NATURAL LIGHT

WORK AREA (52 S.F)
- CORNER DESK WITH VIEW OF DELAWARE STREET
- LOOKS OVER LIVING AREA

LEVEL 2
HORNELL BUSINESS INCUBATOR
STUDIO 5 FALL 2013
Based on a comprehensive study and demographic analysis of downtown Hornell, New York, the project of designing a Business Incubator was proposed. The goal of this project was to create a tech center with a shared professional office facility that works to create a cluster of entrepreneurial activity and thereby enhance collaboration between start-ups. This building will also develop pedestrian traffic in downtown Hornell which will generate revenue for local businesses.

The main influence of this design was pedestrian traffic. By locating the main entrance centrally between Broadway and the Main Parking Area I was able to create a small green space off of Broadway. With the lobby just off this green space a nice transition is made from the very busy and public Broadway, to the semi-public greenspace, to the more private lobby.
sorrento skyline
kelly 2013
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