Portfolio of Architecture and Urban Design

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Compilation of Selected Works
2008-2012
The objective of these projects was to apply what was learned in class through hands-on application. A knowledge of construction and design is very important for any architect or builder.

**Construction**

**Wood Frame Carriage House Model 1/2” = 1’-0”**

Carriage House View 1

Carriage House View 2

Carriage House View 3

Carriage House View 4

Carriage House View 5

**Eave Detail Model 1” = 1’-0”**

Construction Tools

Drawing of Detail

Detail View 1

Detail View 2

Detail View 3
During the summer of 2011, I had a remarkable academic experience. I learned so much about architecture and design through applying hands-on building techniques. I worked with a licensed architect and construction manager on non-profit projects for clients on the Gulf Coast of Mississippi. Prior to this experience, I knew very little about building construction. Along with my colleagues, I was able to design a project in the computer and then physically build it. I also learned how to properly hang drywall, create blocking around plumbing fixtures, build a dormer, and do a number of other things. As a result, I now have a working knowledge of building construction.
The objective of this project was to design a house using AutoCAD. It is a single-family house with a full living room, dining room, and kitchen on the 1st floor, along with a 1/2 bathroom. On the 2nd floor, there are 2 bedrooms, each with its own full bathroom. The depth of the house is 36 feet, and the width is 22 feet. There is also a basement with a storage room, family room, and a den. Wall construction of the house is brick masonry and concrete block.
The purpose of this study abroad session was threefold: to think analytically, draw with the mind, and apply what was learned. Learning from the past always serves as a great tool for design. The challenge was to not only draw what was before me but to critically think about what was being drawn. Drawing types included were diagrams, partis, perspectives, sections, plans, and elevations. As a result of this trip, I applied some design aspects to my studio projects.
The objective of this project was to design a mixed use commercial building using the software program called Google Sketchup. The proposed program for the building is for a pharmacy on the 1st level, offices on the 2nd level, and apartments on the 3rd level. The proposed design has simple, traditional construction details.
Traditional Home Design

The goal of this project was to design a house that teaches about the importance of building craft. The location of the proposed design was in Grand Rapids, Michigan. Three requirements of the project were to: design within the lot size of the given site, incorporate traditional building principles into elevations, and properly apply construction principles.

The proposed design of the home has two bedrooms and 1.5 bathrooms. The home is a single-family residence and has a garden that leads to a carriage house in the rear. The home is also proposed to be both marketable and sustainable.
YMCA Design Proposal

The objective of this project was to implement and integrate sustainable design principles into a building. The proposed site location of this project was in Southwest Michigan. The basic requirements of the program were to provide for the needs of the surrounding communities in terms of health and well-being and promote the goals of the YMCA organization.

With 3 levels, the YMCA has various interior spaces such as a large collegiate sized gymnasium, an athletic swimming pool, a childcare room, offices for employees, a racquetball room, a weight room, and a youth hostel. This project was designed with Revit software.
Urban Design

The goal of this project was to improve the existing urban conditions of a local town called Berrien Springs in Southwest Michigan. This was a collaborative project done by my whole class with the help of my professors. The whole class was divided into 6 groups, 3 groups in the village and 3 groups in the township. My group was called Market Square, and our objective was to improve the existing area by designing a comprehensive masterplan for that area. We were confronted with various issues, such as zoning, parking, setbacks, building heights, and property rights. We proposed to add buildings to the site for economic stability and commercial reasons. We proposed an urban plaza for the public to enjoy as shown in the images to the right. The top image shows the before conditions, and the image below it shows the proposed conditions. As a result, the project won the a CNU academic design award for 2011.
Before: Existing Condition

After: Proposal

Site Plan with Context & Proposal
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