Objective

Using vertical and horizontal structural members, explore the ordering, definition and expression of a series of spatial volumes.
SPACE VOLUMES

LAYER 1 ELEV 1" :

4" ø
1 @

4" x 4"
1 @

LAYER 2 ELEV 2"

4" ø
1 @

4" x 4"
1 @

LAYER 3 ELEV 4"

4" x 4"
1 @

LAYER 4 ELEV 6"
Same as layer 3

LAYER 5 ELEV 8"

4" x 4"
1 @

GRID
Nine 1 1/2" squares on each side with total dimension of 13 1/2" x 13 1/2"
Creating A structure with small pieces.

To me, this project has the feel of putting a puzzle together

A volume with rectangles

A volume with square and rectangles
In this form core sketch model, I focused on each layer.

I used balsa wood for my final model to show the volume of the structure. In this model, my focus moved from each layer to the whole structure.
Objective

To produce a three-dimensional spatial analysis of a two-dimensional composition you will compose an arrangement of three-dimensional volumes based on the implied spatial relationships existing in a two-dimensional composition, a Cubist painting.
The Clarinet by Braque - 1913
Analyze

This painting looks like a sketch. He is simple and undecorated. There are 13 layers and each layer has a different object. Despite its simple organization, the painter represents three-dimensions clearly by his coloring technique. He colors the five front objects to create vertical depth.

White Sketch

I tried to figure out how many layers the original painting had.

Colored Sketch

I tried to figure out the relationship of each layers though analysis of colors
1st Model
Creating different layers.

2nd Model
Creating depth & angle.

3rd Model
Figure out the location of each pieces.

4th Model
Creating relationships between each layer.

5th Model
Creating relationship with Color.

Final Model
Creating a 3-D Object from a 2-D painting.

3-D Object
Objective

1) The structure is to be constructed of a modular unit, within 28’x28’ squire.
2) The design should include an interior courtyard.
3) The structure is to be made up of modular walls, a modular floor, and a modular ceiling.
4) Furniture in the space is to be made of modular unit.
I created three layers

- because I want owner to change his feeling when he gets into each level.

1st level Studio – work hard (motivate)
2nd level Living – take rest, eat (comfortable)
3rd level Bedroom – sleep well (relax)
Inside Courtyard

Designed Furniture - DESK

Designed Furniture - LACK

Designed Furniture and Inside-Courtyard by using modular unit.

Image of my courtyard

Idea of my furniture
Objective

The vehicle for this project is a set of spaces within an Art Museum. You are to design the spaces dictated in the program and compose the spaces into an architectural promenade or sequence of spaces. Required three different spaces using precedents for each space.
My Idea – Collage PLAN

images from Ching, Frank, Form, Space, and Order.

Permanent Collection Space
Temporally Collection Space
Sculpture Space
Creating each Spaces by using Precedents

Otaniemi Technical University, Finland Alvar Aalto, 1949-64

Eveyx-Arbresis, France Le Corbusier, 1957-60

Faculty Library at Cambridge University, England James Stirling, 1964-67
My Three Different Spaces

Permanent Collection pace

Sculpture Space

Temporally Collection Space
Objective

The façade of a building tells us many things about the space within. Architects have often used the façade to give other clues about space within. This problem will allow you to investigate the composition of architecturally significant façades and to develop techniques of façade design.
Elevation

Plan

Section

Drawing by Hand

Façade Analyze
**Objective**

You are being given the documentation (*sans façade*) for a New York Townhouse designed by Robert A. M. Stern. You are to design a façade for the townhouse which takes into consideration the contextual cues and plan and sectional disposition of space.

**Final Model**

**Elevation & Section**

**Entrance**

**Semi-exterior Balcony**
CONCEPT

First of all, when I decided on my concept, I focused on the site: NYC. Buildings in New York such as Beaux Art, Greek-Revival and Modern. NYC is kind of a museum of world architecture.

So I decide to create a very strong image for my façade. I chose to work in the Modern style. One reason is inside of original building (Robert A.M. Town house) is in a modern style. The other reason is that Modern buildings fit the big city. They created vivid impression. That is I want for my façade.

how a modern building exists in city.
RELATIONSHIP TO SURROUNDING

My professor emphasized the importance of fitting in to the context, so I tried to create a relationship to each of the buildings next to the townhouse.

Compared with the next buildings, the given building is small house. They are much taller and bigger. So I used two axes: a horizontal axis and a vertical axis to give the view the impression that my façade is bigger. Horizontal lines make the façade appear wider and vertical line make the façade appear taller.

The position id the lines are drawn from the context. The lines create a relationship with the surroundings and a big impression at the same time.

The lines form rectangular units which are repeated a different length.
**Level Change**

When I made my 1st model, I thought my building had four stories. But after that I realized it is a three-storied building. Therefore, I had to change my façade’s level too. However I didn’t want to change my façade design because it was well-balanced with the surroundings. Therefore, I just adjusted the floor of the balcony. I shifted it down. My 1st model has a balcony accessed from the third floor. But, after I changed the level, it is accessed from the second floor.
BALCONY

I had two kinds of balconies in my façade. One is semi-exterior balcony. It has a height of 8'-4". It is surrounded by walls, but one of them has slits. It is very interesting shape. And sun-light coming through the slits should be beautiful. Furthermore, after it gets dark, the light coming from the inside will decorate the night view in NYC.

The other balcony is completely outside. After you go up outside-stairs you will get different style balcony. For the material of the floor of this balcony, I chose glass. And I designed a railing too. It also has some relationship to my façade design itself.
Good Opportunity

While I was working on this project Mr. Brent C Brolin came to see our project. He accepted my modernism stating, he said to me “this is strong,” at the same time, he also noticed the railing for my balcony. He said, “only the railing gives me a real scale, I think this façade should have invisible railing” I decided I really agree with this idea, so I created an new invisible railing made of glass.

Designers eye by Brent C Brolin

Wooden Railing

Glass Railing
Objective

To design with a structure that is fitting in consideration of form and detail to the given the visual repertoire of the chosen hero. To explore placing a building on a site, integrating approach, threshold, sequence. The person I chose to be my hero is Charles Eames.
1. MATERIAL

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>Chair Models</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIBERGLASS</td>
<td>La Chaise (1948)</td>
<td></td>
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<tr>
<td>ALUMINUM</td>
<td>Aluminum Chair Group (1958)</td>
<td></td>
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<tr>
<td>STEEL-WIRE</td>
<td>Wire Mesh Chair – DKR (1951)</td>
<td></td>
</tr>
<tr>
<td>WOOD</td>
<td>LCW – Lounge Chair Wood (1945)</td>
<td></td>
</tr>
</tbody>
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2. JAPANESE STYLE

In his work, sketches, posters and pictures, he showed a taste for Japanese style.

His pictures in Japan
My ideas with sketches

Designing my Pavilion with his Storage.

I wanted to refer to his design. So, I decided to focus with wood structure. I used Japanese traditional shrine wood structures as my precedent.
Furniture in the Pavilion

Eames Elliptical Table – 1951
Dimensions: 89”lx 29 1/2”wx 10”h.

DOWNSTAIRS – LCW

First Floor – Table & Light

LCW – Lounge Chair wood – 1945
Dimensions: 22”wx 22”dx 27”h.

Designed Lamp
Dimensions: 10” x 20” h
Hero’s Pavilion

Underground Walkway

First Floor - Entrance

First Floor – Table & Light

Pavilion itself
(without surroundings)

Final Model

DOWNSTAIRS – LCW
Other Works

My Sketches
My Sketches
Barcelona Pavilion

CAD Drawings