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Interior Design

MFA

Pratt Institute





A self-sustaining Live/Work Community for Local Artisans.

This thesis explores the potential of textiles to activate the memory of an abandoned building while adapting its interior into a reimagined spatial fabric. Examined as a formal technique, material assembly, temporal joint, and social practice, weaving will be deployed to foster connectivity between materials, people, time, and space as a tool of social sustainability.



Site: New York Farm Colony Seaview Hospital

Address:

Brielle Ave, Staten Island, NY 10314. The New York City Farm Colony was a poorhouse. Site Condition:

Abandoned since 1975. It representing New Yorks' highest concentration of derelict buildings, with over two dozen scattered through 300 acres of mostly wooded land. Pressing Issues:

According to NYC planning, Community District Profile published in February 2020, this community have a urgent need for cultural related services.

History:

a self-sustained Poorhouse . "a belief in the role of architecture in reforming the supposed moral deficits of the indigent."



BUILDING: Dining Hall and Kitchen Building CONTRUSTION: 1914 ARCHITECT: Frank H. Quimby AREA:12000 Square feet each floor (Source: Original drawing)





Issue

Concept

Methodology



SCHEMATIC DESIGN AND PROGRAM





Project type:

A self-sustaining Live/Work Community for Local Artisans. Weaving together dwelling, making, leisure, structure, form, and nature to forge an enriched life for the residents to be economically self-sustained, this thesis proposes a radical way of reimagining abandoned building sites to accommodate new modes of existence while providing incubator space for people to collaborate, to share, and to create social sustainability.

User:

Local Artisans, Visitors

Program:

Living Area: Dorm, Leisure Area/Coffee/Bar, Public Dinining, Fruit and Vegetable Market, Working Area: Shared Studio, Large WorkshopMarkets and Shops: Artisan Market, Supply Shop. Public Gathering Space: Co-op Gallery, Information Center, Group Gathering Space









Working Unit

Shared Studios

Group Working Area

Workshops(Textile, Glass, Wood, Ceramics, Metal) Experiencing Workshops

Public Working Area:

Artisan Market Art Supply Shop

Others

Uni-Sex Bathroom



Living Units

Shared Dorm (With Private Room)

Large Group Living Area:

Leisure, Coffee, Bar

Small Group Living Area:

Casual Meeting Space

Public Living Area:

Public Dining Sunken Living Quarter Vegetable and Fruit Market

Public Gathering Area:

Co-op Gallery Information Center

MODEL EXPERIMENT



Preserve Culture and Memory, Material: Metal, Textile



Creating New Spatial Condition. Material: Concretem and Textile



Creating New Spatial Condition,



Repair and Patch Broken part



Encourage Social Gathering

MATERIAL DESIGN

Textile Reinforce Concrete + Concrete Cloth





1. Formwork



4. Take off formwork







2. Place textile fiber



5. Attach eye bolt; Stretch the textile fiber; Nail to the ceiling

3. Pour cement



6. Spay concrete on the exposed textile fiber-Concrete Cloth



Further: use string/rope to connect new structure and preserved wall/ceiling/collumn

Pay Homage to the Past, Envision New Spatial Fabric



DESIGN PROCESS

Combination

HORIZONTAL

RESIDENTS

MIX	
WORKING	
LIVING	

VISITORS

- Group Gathering (Sunken Sofa)

Egress

NATURAL LIGHT

The third floor has a panoramic open glass ceiling, where has full access to the natural light, the transparent quality of the textile will pro-vide shade during the (sunny) day. At the same time, harvest solar energy and transform it into electricity.

The glass water collection tube will also bring sunlight to the lower level in the middle of the space where there is less access to daylight.

The cutout cross floor will provide enough daylight for the greenary.

SOLAR HARVESTING

Building Roof: A panoramic glass roof allows maximum light permeation, To make the relatively closed and dark old buildings more habitable.

Solar cell stitched into ceiling texitle, which take the sun's energy and turn into electricity, by which transforming household ceiling into flexible, semi-transparent, solar collectors.

MATERIAL

Solar Cell Roof Curtain installed on the roof of spaces at Third Floor Mezzanine.

ENVIRONMENT CONTROL AND SUSTAINABILITY

RAIN WATER COLLECTION AND USE

Rain will be collected through the glass tube and filtered and stored in the basement tank, then the gray water can be used to flush the toilet.

MATERIAL

Multifunction PVC waterproof transparent mesh tarpaulin cover material fabric

Flush Toilet

Water Fountain

Rain Water Basement with some filter system

SITE DETAILS (BEFORE)

Ceiling:(Overall Structure is intact): Perforated bricks

Main Wall(Overall Collumn (Destroyed): Steel with bricks Structure is intact): Solid Bricks layer outside

(Preserved)

Floor (Destroyed): Masonry

Broken Wall (Need to be repaired)

PRESERVATION (AFTER)

Textile Wrapped Old Masonry Window Mullion

Textile Reinforce Concrete+ Concrete Cloth

Patch and Repair Broken Masonry

Remove Part of the wall, Turn into Textile Gallery

NEW INTERVENTION

Textile Panel for Hanging Art-work In Workshops

Built-in Sunken Sofa

Textile Reinforced Concrete With Stretch out textile fabric

Solar cell stitched into ceiling textile.

MELODY

Rock Music Company

The song-Creep, which is the most important song for my company, is embedded in space. Rock music has a very **strong breakout**, it happens in the **center** of the space, which has the **highest hierarchy** and also the most **dynamic** area. Then it **spread out** to the outer area, which is the working and meeting, it's quiet and has the most sunlight.

Music has chapters, so does this space, each section is divided by double functional furniture. **Working and relaxation are well mixed** here. The goal is to make everyone working here on the **pleasure** of work, to let them feel they **dancing** in the space every day.

FLUIDITY Noguchi Museum

This is a Museum Project, the site is located in DUMBO, My inspiration is based on a stone sculpture "Basin and Range"made by **Isamu Noguchi**. (the picture is a miniature sculpture I made)**Everything in the world is not an independent existence, they all have some kind of connection and communication with others.** It is a continuous existence. And there is no totally enclosed space in nature, like the sculpture of Basin and Range, so as the museum, **the spaces are connected by air gaps and visual transparency.**

RCP

DESSERT

Coffee Shop

SITE: 200 Willoughby, Brooklyn INSPIRATION: Oasis PROJECT TYPE: Coffee Shop PROGRAM: Bar, Front Dining, Back Cafe, Office, Kitchen, Bathroom

MATERIAL

TERRAIN Private Owned Public Space

"Every man is island", we are loose touching bubbles, momentarily, chronically connecting with others to form an ensemble. So public space should create spatial condition that enable BOTH the isolation of individual and the concentration of isolated entities into collective ensemble of cooperation and contemplation.

Public space should be accessible to all groups(all gender, LGBT, disabled, different ages) and provide for freedom of action.

SPACE PLANNING

CONCEPT DEVELOPMENT

Origina

MATERIAL AND SUSTAINABLE APPROACH

Instead of replacing all the material, I wanted to best preserve the existing conditions. Based on the analysis, the green marble and brass will be maintained, the red and yellow marble will be replaced with white marble. The landscape furniture will use recycled plastic as structures, brass as top finishes.

A landscape built-in furniture, which creates multiple possibilities for individual well beings and public interests, which varied from enclosed single space for individual sitting, dining, organizing staff, to big diverse open space for public gathering and communicating.

The designer's job is to provide the possibilities of the art of life and fun experience in a sustainable approach. So what can stairs do? Leading people from one level to another; A open sitting area to hang out and rest; A better view of the city scene; A Cabinet; A display case....And a dividing line for two space.

This project aims at exploring the multi-functional stairs to provide fun experience in POPS, and artistic shopping experience in PRADA.

BALANCE Live and Work Space

The project concept is BALANCING-how to **balance working and** living, how to **balance light and privacy**, how to balance **healthy** life and busy work.

SUSTAINABILITY APPROACH

A. SKY LINE--ENERGY EFFICIENCY

1.good use of sunlight, shading and ventilation would cut heating and cooling loads.2.install solar heating panel on roof top

B. GARDEN and LADDER-SELF-SUPPLY SYSTEM:

1.She can plant some fruit and vegetable for her to eat, not only entertaining, but also reduce consumption on the traffic.

2.She can do exercise anytime at home to keep a healthy body and reduce consumption on electric consumption in the gym.

VITALITY

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Scupture

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This sculpture is inspired by celery, showing the vitality of the plant, the toughness as well as suppleness. The life force of being, it's confronted with gravity.

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Working & Resting Chair

A Chair inspired during the pandemic time, sitting in front of the desk for hours of zoom meeting, there is a strong need to change position and close our eyes for momentarily rest.

SYSTEMIC DRAW NO

A RALES

Huthan has been in the dominant prosition in the world and plundering natural resources.

The industrial tevolution, ecclement boom accelerates the process, how we all became super consumers. We tend to keep up the latest thends and pack dur case of the outcos, the dyeing and bleaching process produces hazardous chemicals and most polluting industries. It depleting the se purces, the dyeing and bleaching process produces hazardous chemicals and cause serious water and air pollution. An overablind ince of nutrients leads to eutrophication also know as hazardous algae bloom, the toxic chemical will also change the structure of these microorganisms in the water. At the same time, the global waraning in place the glacier and release some ancient microbes trapped in the ice. There might be one day, the microorganism dominant the world.

TOMATO'S HOME Biomimicry World Chanllenge

Tomatoes (the most favorite fruit in Africa) waste problems in Nigeria (the most populated country in Africa, but had the highest percentage of tomato waste), can be greatly reduced by using interior design strategies in the post-harvest stage.

To reform the local baskets used for storing tomatoes: cu luffa into two pieces, and wave the pieces into the baske Then can put the tomatoes inside the hollow space in the

🐣 Modular System - Facade

Cacti

The ribs made by the clay bricks can create turbulence around to lower the temperature.

STEP 1

The bottom openings can be only opened from inside. The top openings can be only opened from outside.

Step 1: Cold air flows downward according to hot air because it is more dense and sinks while hot air rises. The air comes from outside to inside. The bottom openings are opened automatically because of airflow. The top openings cannot be opened since it can only be opened from inside to outside.

STEP 2

Step2: With more air go inside. The interior air pressure becomes bigger. The top openings are opened and the bottom openings are closed automatically. It generate a one-way airflow.

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