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FOODSCAPES

Professor + Project Year: Galia Solomonoff, 2021
Project Partner: Carley Pasqualotto
Location: Melrose, Bronx, NY
An unfortunate issue for many residents living in the South Bronx is food insecurity.

This housing project attempts to address the food economy of the Bronx through the use of shared kitchens, community courtyards, and rooftop gardens.

Designing for multi-generational use, all units are at one story using a single corridor layout. Shared balconies connect apartments to each other and allow for residents to utilize outdoor cooking amenities, like a barbeque or pizza oven. Offering residents a chance to live closer to the source of their meals, from growing, to eating, to buying and selling, this project aims at connecting neighbors through the commonality of food.
Unit Layouts

Studio Bedroom Plan

One Bedroom Plan

Three Bedroom Plan

Two Bedroom Plan
Project Aspiration Collage

Multigenerational Community Engagement

Shared Kitchens

Shared Community Balconies

Eating Vignette
Teaching Vignette
Cooking Vignette
Cafe Vignette
HUDSON VALLEY NATURE MUSEUM

Project Year: 2022
Location: Hudson Valley, NY
Professor: Robert Marino
Designing a Museum for Nature in the Hudson Valley region of New York, this project utilizes traditional wooden construction techniques to create an amphitheater-like experience for visitors to enjoy and also respect the delicacy and beauty of the surrounding nature.

The Hudson River Estuary has a long history of environmental disturbance, including shoreline modifications, dredging impacts, and pollution. The construction of railways along the west of the shoreline has had major impacts on the tributary and has accelerated the accumulation of sediments. Many Hudson River tributaries have been dammed for industrial use, which is actually the case for the Sawkill Creek as it was once used for lumber and logging purposes during the late 19th Century. Historically humans have had a rather harmful impact on this site along the river.

Looking for a structural system that would not interfere with the fragility of the surrounding nature, the project was largely influenced by wooden roller coaster designs of the early 1920's. The thin wooden design offers a non-intrusive form and materiality. Meant to guide visitors through the site in varying elevations, there is a curated interior intended for the planting of native and endangered species to thrive.
Project Plan - Floor 4
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<th><strong>Project Year</strong></th>
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<tr>
<td><strong>Location</strong></td>
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<td><strong>Professor</strong></td>
<td>Laurie Hawkinson</td>
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This project proposes an Urban Post Office system that centers around the bike and cargo bike as the new mode of local delivery and pick-up transportation. Reasons for lessening the use of Mail Trucks are many, including substantial traffic congestion, parking ticket accumulation, pedestrian accidents, and greenhouse gas emissions and pollution.

Specifically, this prototype proposal is looking at the existing Lincoln ton Post Office located in East Harlem, NY. This newly imagined Post Office will still function with existing postal services but also accommodate the movement of bicycles through wide entrances and exits via the cross streets.

A translucent polycarbonate facade will not only allow for increased levels of natural light but also create a new visual relationship between the exterior street activities and interior users.
LIGHT OFFERINGS

Project Year: 2023
Location: Harlem, NY + Cape Town, South Africa
Professor: Ilze Wolff
Researching and studying the archive of South African photographer Ernest Cole, there was a collection of photographs of a specific bookstore that once existed in Harlem. Lewis Michaux’s National Memorial African Bookstore was a rarity when it first opened in 1933. A place for Harlemites and scholars, and really anyone interested in literature by, or about, black people. Along with serving as the epicenter of written black and indigenous history, Michaux helped create a new type of public space that centered around knowledge, debate, and progressive thought.

The bookstore became a significant hub for the civil rights movement, hosting events and rallies for Malcolm X and other political leaders and speakers during the 1960’s.

However, during this same time period, New York Governor Nelson Rockefeller declared a section of 125th Street between Lenox and 7th Avenues as the site of a proposed State Office Building. Michaux’s bookstore, which had stood for nearly 40 years, was lost due to the state government’s efforts to construct their new office building.

Through this research, including the circumstances around its demise, this project is responding to the loss of Michaux’s bookstore. Utilizing a lamp as a tool for reading, a source of light, this project is attempting to make visible, through the method of cyanotype sun printing, the history of the National Memorial African Bookstore by displaying the lamps throughout and in collaboration with the Harlem Book Fair.
RETHINKING THE BROADWAY THEATER

Project Year: 2020
Location: Times Square, New York, NY
Professor: Emmett Zeifman
The project focuses on redefining the typical Broadway theater experience through mobility and transparency. By dismantling and renovating the theater to include portable stages, moveable seating arrangements, operable glass panels, and a public corridor running through the building— the theater allows for different types of viewing scenarios and welcomes a new type of audience.
EXTERIOR CURTAIN WALL ASSEMBLY

Project Year : 2022
Partners : Nick Shannon, Brennan Heyward, Qinging Cao
Professor : Nicole Dosso
This project covers an understanding of the assembly components of a Curtain Wall 4-way intersection of a residential building.

Since there are so many pieces that go into this assembly, the exploded axonometric view helps to demonstrate the complexity by pulling each piece guided by construction lines. Bracket installation along the floor slab, the embedded steel angle, nelson studs, steel plate, and aluminum anchor, vertical and horizontal mullions, sealants, every piece plays a role here and the relationship between components must be fully understood in order for a successful installation.

The model mock up is comprised of three material methods; 3D printing, foam pieces, and acrylic.
Reference Drawing - Mullion Detail

Model Material Approach

Curtain Wall 1:1 Model
LEARNING THROUGH GRADIENTS

Professor + Project Year: Berardo Matalucci, 2021
Project Partners: Rose Zhang, Priscilla Auyeung, Jennah Jones, Kerol Kaskaviqi
Location: East Village, New York, NY
Light exists not only in form but also as information. The biological way in which light is processed translates into an educational framework for the school’s flow of knowledge. While CBJ Snyder’s innovative H-plan effectively brought sunlight into P.S. 64, the building’s repeated floor plans alongside its symmetrical façade and windows limited the interplay of light and dark within. This project thus sets out to reveal the gradients of experience that might take place within the school.

Through a series of excavated light wells, the redesigned P.S. 64 is newly exposed to sunlight from above. Using light’s qualities both formally as illumination and programmatically as a reorganized educational framework, the school’s interiors house a diversity of environments that are matched to its diverse students.
E-W and N-S Sections
Project Sustainability Diagram
Mapped Elevation Facades

- **Double Paned IGU with Ceramic Gradient Frit**
- **Existing Brick Wall**
- **Aluminum Trim Casement Awning Windows**
- **Walkable Skylight**
- **Green Roof**