

03	01 MAXIMALISM Residential
11	02 TAURUS II Exhibition
19	03 VOID EXPANSION Wall Detail
23	04 NEO-BEDOUIN SHELTER Defensive Ecology
31	05 ENGAGE-ACTION Library
37	06 UN "OFFICE FOR ALL" Commercial



MAXIMALISM

TRI I

Residential | December 2019

01

This project was a townhouse renovation in Brooklyn. One of the client's family members was claustrophobic - this became the driver for the design of the project. Creating an 'expansive space' became the key focus, which was achieved by decuttering and rigorous alignment. The expansiveness and character of a seemingly minimalist space was heightened by creating implicit dimensions of space through light and shadow, hence the title of this project: "Maximalism" a term coined by Flavin Judd.



Name: Yi Jiangnan

Age: 33 yrs

Age: 60 yrs

Name: Ai xin jue Luo



- Name: Yang Aijun Age: 32 yrs
- Name: Yi yang qian xi Age: 5 yrs

- Experience with fasion and textiles in Paris/China
- Helps daughter in law (Aijun) run homemade clothing business
- Childhood in China, abroad to New York at 13
- Works in the United Nations, full-time
- Ex-student of Ai xin jue Luo
- Operating an anti fast-fashion clothing label
- Online store using social media presence
- Diagnosed with claustrophobia gets panic attacks frequently in compact or crowded places.



- X Windrarless rooms
- Crowded elevators
- · Congested highways (Heavy traffic)
- Subways
- Party / Concert
- Closef - Restroom cubicle / NORMAL Rustroom
- Doors (Obstructive, covering an exit/turashold)
- "Important to acknowledge severity of phobia
- (varies ALOT : so patients have their own 'scale') - Typically related to traumas, but also genetic inherited sometimes.
- Claustrophobia Research Notation.

Possible qualitative solutions based on research: •

- Indoor/Outdoor living •
- Continuous/Fluid Multi level space ٠

- Treatment : Psyche therapy
- Cognitive behavioral therapy
- Control negative thoughts / reactions
- Relaxation / Visuatization fechniques
- Exposure therapy & More exposure numbs fear - Anti - Anxiety medication
 - The key is to reduce anxiety triggered from classhrophopre situations.
 - Expansive optical illusions
- Seamless storage/cabinetry •
- Light, naked furniture

De-cluttering/ Expansive Space 5



Case study: Japanese minimalism.

Untitled Artist: Donald Judd Completed: 1989







Concept model: Mirror railing extends space

Concept model for a platform: Mirrored interior finish expands the vertical surface infinitely.

01 MAXIMALISM - Residential

01 MAXIMALISM - Residential



Second Floorplan

Third Floorplan

Atrium/terrace poetically connects the house to the outside, while maintaining privacy - a perfect retreat from work.

Short Section B



circulate into 'floating' photography studio.





Custom kitchen cabinetry: Seamless, aligned, decluttered. Mirror kitchen partition & polished concrete expands vertical & horizontal datums.



Double-Height living room with 'floating' photography studio.



9

Interior window peering 'outside' into atrium from grandmother's room.



Muted materials: a 'canvas for light'. Hints of ash & oak for warmth.











Sleek, 'naked' furniture selection that stay true to form & material.



Taurus II is a concept **space vessel**/station. The design was driven by an assemblage of iterations of a **torus**. Its spatial capacities were explored in order to make an **immersive installation** that **commemorates** the achievements of the astronauts. It was important for it to be similar to its original scale so that viewers could be inspired just like the astronauts were. The biggest challenge was to fit the installation in a complex multi-height space - the design building of Pratt Institute.



13





Unnatural proportions encourage interaction



Plan View

Cut Floorplan

•

 \varnothing

ф.

Section 02

Scale takes advantage of double-height site.

15





Richard Serra - Band



Site: Pratt Institute School of Design Building Address: 200 Willoughby Avenue, Brooklyn, New York 11205



The forms circulate through thoroughly enough around the lobby space and the staircase. The material choice of steel was inspired by works of Richard Serra. This particular installation immerses the viewer by forcing participation - making them duck, crouch, and take limited paths of circulation. It is an active aid for vividly imagining the adventures the astronauts had partaken.

Section 01

Tailored tightly to human body for a stimulating & immersive experience.

Collages

17







3D Printed Physical Models

مودور ال



Top to bottom: Form iterations of a torus Assemblage of manipulated forms Spatial capacity exploded axonometric





Scale relationship to the human body





"Void Expansion" is a decorative wall panel for a **luxury residential** space. It has modernist traits in its **modularity** and neutral or more precisely, its colorless nature. Doing so **draws out the highlights and shadows**, creating **spatial depth and illusion**, adding another dimension from what was a static wall. Thus, the wall becomes something **dynamic**, creating a **dramatic** moment/atmosphere.





Inspiration: Ceramics by Erwin Hauer



Plan







Parametric Grid for form

• were modeled in 1:1 scale so the final outcome could be a life size mockup. 2. Three distinct modules, (two corner conditions) were **3D printed**. 0 3. A silicone mold was created for each module. The challenge was to successfully make a two part mold that took I into account for the undercuts due to the complex geometry. ⊢ 4. The molds were used to create multiple **plaster casted** modules. ш 5. The modules were **drilled** in the back so they could be **fixed onto a wooden panel** with numerous dowels **E** cantilevering out of it.





Silicone molds from 3D Print

• 1. A singular module was modeled in Rhino 6 following a set of rigorous rules and symmetry on a 3D grid. They

Photographs



04 NEO-BEDOUIN SHELTER Defensive Ecology | December 2020

This project address both immediate and long-term questions relating to the survival and sustainability of the human species, while recognizing the importance of and utilizing the unique benefits of **coexisting lifeforms** to achieve those purposes. This will be accomplished through the creation of a **defensive ecology**; defined as a **human-driven intervention** intended for **anthropic inhabitation** or use, as existing within the greater context of radically-altered Anthropocene global and local ecosystems. This **shelter** was designed in the Omanese **desert** to **preserve** their dwindling **bedouin identity**, both in a **cultural** and **ecological** sense.



Site: Wahiba Sands Desert, Oman

Based on research, a species other than the locals of Wahiba sands was to be considered, as well as crises or problems in both a literal (climate) and non-literal (loss of bedouin culture) sense. The relationships of these various components were illustrated in a ecosystemic drawing to draw up an initial solution.

Species: Camels, Cacti (Prickly Pear)

Crises: Cyclones, loss of bedouin culture/practices.

Community: Bedouins (nomads of the middle east), Neo-Bedouins (younger generation bedouins who spend more of their time in modern civilization).

The ecosystemic drawing on the right illustrates a 'beacon' and 'tent' system. The beacon is a self sustaining structure that protects the local species, including any bedouins against harsh climatic conditions - it includes a water collection & storage system, halal camel meat processing, aerodynamic considerations, and temporary shelters for all species.

The drawing also addresses sustainable, local sourcing of materials such as sandstone and camel hide. Sandstone's rigidity is comparable to that of cement and brick, making it a suitable material for structure. Camel hide is weaved for layering traditional bedouin tents because it expands upon rainfall, and contracts when it's dry for ventilation.



Process drawing: Both species can be used as food, but camels are also used for transporation and camel hide.



Process drawing: The site analyzed in section, topography, and other climatic data.



Final Ecosystemic Drawing: Abstract diagram of initial strategy based on the ecological relationships (elaborated in detail on previous page) of Wahiba Sands, Oman.





Third Floor: View upon entry from gateway. The ablution area on the right and collective dining area on the left.



Second Floor: Bedouin culture gallery/library



Ground Floor: Camel shelter & Central staircase

The beacons are fixed structures whereas the tents are freestanding elements. Operationally, there are a community of beacons situated along the implicit 'border' between the desert and 'modern' Oman to provide several acess points.

- Aerodynamic facade
 Camel hide membrane
- 3. Internal sandstone structure

05 ENGAGE-ACTION

前井

प्साह

This project was a Brooklyn Public Library renovation. The client (BPL)'s concern was that emerging technologies refrains several demographics (mostly younger generation) to interact with the library. The library was re-envisioned to encourage a stimulating/ engaging learning experience. All conventional furniture was replaced with custom modules that can be aggregated to create temporary and flexible spaces. It requires the user to plan what they want to learn and how they want to learn it, allowing them to become an active participant in the learning process.





Site: Brooklyn Public Library - Pacific Branch Address: 25 4th Ave, Brooklyn, NY 11217

Library was quite vacant despite urban diversity, including schools.



Brooklyn Atlantic Avenue

Divide

Brooklyn Public Library

Page **33**

Technology commodifies information - one absorbs whatever google spits out onto your screen.

This proposal will force users to actively/physically participate in their learning process. Thus, learning in the library becomes engaging, stimulating, and a little playful.



A module can be arranged into three programs. The user combines the modules, to create a tentative work environment, actively thinking about their learning objectives.

Permutations: Ways to fold a cube

Desk

Process modules

Proposal

06 OFFICE FOR ALL Office | April 2020

This is a office design for the Division for Inclusive Social Development (DISD), which is affiliated with the United Nations. The site given was at 500 Park Avenue, and required programs were 'work', 'rest', and 'educate'. Based on their values, an "office that integrates itself with the community through transparent accessibility of resources and inclusivity that negates hierarchy" was designed.

Fridge

Inter-agency coordination

Stakeholder **engagement**, partnerships, **communication** and **outreach**

Knowledge management

Capacity Development

Policy **Analysis**

An office that integrates itself with the community through transparent accessibility of resources and inclusivity that negates hierarchy.

Pantry modules with resting nooks of various privacies

Formal meeting spaces

Lecture room for visitors. Work environment open to public.

Open Work Space Modules

Employees slide back into private nook to take a phone call.

Wall rotates into a table to open up private nooks into a meeting space of four. Casual team meetings are encouraged

Custom shelves: Open library for everyone (including visitors) facing circulation, and private storage facing desks.

Thesis Booklet Linkedin bkim26@pratt.edu 347.878.3982 Brooklyn, New York