a collection of designs and creative works



SMURFING

The exploration of deflating and inflating of an object comes from the pushing and pulling of surfaces, edges, and vertices in architecture. In short, this is what is called "smurfing." Stretching the imagination and eluding the mind to make out a deflating/inflating object. In reality, the object is doing neither for the object is still and motionless. The bulging, shifting, and dynamic tone of the object comes from the pure imagination of the view. The articulation of the object comes from different deflated sports balls and how their deflatedness is portrayed within the individual balls. This overall idea of what this project is communicating.













THE MUSIC BOX: HOUSTON MUSICAL MUSEUM



THE MUSIC BOX: HOUSTON MUSICAL MUSEUM







North East Elevation

South East Elevation



 The Program

 Setting up the program was number one when it came to understanding what the form wanted to be.

 The Tent

 The Tent

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With my theme of nature, a tree trunk and root system seemed to fit the tensile form the best. So I began to model the tree and roots.



The Grids



The Panels:

Following the form and grid pattern, I began to divide the system into panels. Half being solar panels and the others being glass panels.



The Oak





The Tree Trunk Panels:

The paneling system follows a diamond pattern and alternates to bring the most light into the space. Half of the panels are glass, to allow nature light to hit the residential areas. And the other half are solar panels, to allow for the natural light to be absorbed and redistributed throughout the building.

The Tree Trunk Structure:

The structure, first and for most, follows the form and paneling system. The structure sits on a diagridded pattern that is repeated throughout the form and system. This diagrid pattern is the same pattern as the panels which allows for the structure to attach itself to the panels to hold them in place. Behind the diagridded pattern is a complex space-frame structure system. The space-frame stretches out far enough to grab onto the tower as well as attach itself to the base of the building. The structure is made out of steel which is strong and durable.

The Tower Structure:

The residential tower is quite basic and simple compared to the trunk. This mass is solely a curtain wall system with mullions and glass panels. It sits on a basic grid pattern to allow light into the space. The idea is to allow natural light into the residential space as much as possible. Steel structure systems are also used on edges and corners to help hold up the tree trunk and tower.

The Base Structure:

The base is very similar to the tower is the sense that it is also a large curtain wall system. The mullions and glass panels allow for light to enter the space. Steel structure systems are also used on edges and corners to help hold up the tree trunk and tower.

TOWER STRUCTURE



The Aquaponics Top Structure: The structure system diagridded pattern is carried over from the tree trunk to connect the two structure systems. But with this system, the structure is able to fold back and open up to eliminate with this system, the structure is able to fold back and open up to allow light and the open air to take over the space. Only the curved structure is able to fold back, the gridded pattern in the back stays stationary to hold the folding structure once it is peeled back. The top structure also has some hollow pipes in bedded in them to collect and transfer grey water to the utility rooms.



The Aquaponics Middle Structure: The middle structure part is to solely hold the aquaponics in place. The diagridded pattern is repeated on the middle structure system as well as the bottom in hopes to link all the structures together. The middle system also has wide openings on its side and bottom to allow for people to view the aquaponics and see the fish on the inside.

The Aquaponics: The aquaponic area is made out of reinforced aquarium glass and is maintained through the utility rooms.

The Aquaponics Bottom Structure: At the base of the system is yet another tree like structure. This system also follows a diagridded structure system. The form is based off a tree and how a tree starts off small and then branches out into the sky. The structure follows that idea and attaches itself to the middle structure system.

AQUAPONIC STRUCTURE & ENVIRONMENT

THE REVENGE OF CAPTAIN NECKBEARD





















DISCO CUPS

First project for my 3-D Design class Plastic Cups & Glue Winter 2014



PERK-A-COLAS

Props from the video game "Call of Duty: Blacks Ops" Glass Bottles, Sticky Paper, Water, & Water Color Pencils 2015-16



Commercial Boxes & Spray-paint



Free Time Messing in ZBrush ZBrush 2014-16

