

Jeff Cook

CAD Designer, System Administrator, 3D Prototyper

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Qualifications Versatility: Experience with architecture, construction, prototyping, programming, network design, modeling, 3D printing, training and some electrical and mechanical engineering

Technology: Computer expertise with multiple operating systems, computer languages, and design suites

Communication: Manager for multiple teams, provided Revit/AutoCAD training, designer of CAD and project standards involving documentation, on-boarding, maintenance and implementation

Dependability: Perseverance to see a project through, despite challenging clients or difficult construction

Experience	The Hettema Group http://thehettemagroup.com/ CAD Designer, 3D Modeler, manager, working on One World Observatory in New York, Aon Center Observatory in Chicago, as well as theme parks, dark rides, museums, and more. Developed and maintained CAD standards and scripts.	(626) 683-9876 2013-Present
	Vanos Architects Project manager, designer and coordinator for multiple complex projects from large scale residences to dense and complicated small lot developments.	(310) 280-0193 2012-2013
	Jeffrey Rome and Associates Project manager/job captain for a small team, with many projects in different stages and with a variety of challenging planning requirements.	(949) 760-3929 2012
	Independent, Multidiscipline Design and IT Consultant Collaborated with architects, designers, contractors on training, design, modeling, scripting and large scale IT systems.	(310) 292-5595 2011-2012
	CAD Research Center http://www.cadrc.calpoly.edu/ Designed a complex network architectural solution and managed multiple servers.	(805) 756-6566 2010-2011
Skills	Design: Blue-sky conceptual through construction documents, diagrams, program analysis, renderings, presentations in addition to logo development, website design/implementation and printed prototypes.	
	Computer Systems: System administration for several large projects, design and development portfolio websites, and rigorous use of complex software packages/scripting for architecture and other disciplines.	
	Digital Experience: 3D Modeling and design in Revit, AutoCAD, Rhino, SketchUp, and others.	
	Model Building: Construction experience in PLA/ABS/HIPS, concrete, plaster, wood, metal and more.	
Achievements	Academics: Graduate summa cum laude with a Master of Science in Architecture and Bachelor of Architecture from California Polytechnic State University at San Luis Obispo	
	Completed Projects: Integral part of the architecture and design team responsible for One World Observatory (New York 2015), Aon Center Observatory (Chicago 2020), along with others yet to open	
	Scholarship: Earned the 2010 Herbert E. Collins scholarship for "achievement, industriousness, and fine overall character" in the CAD department	
	Construction: Managed and completed design, demolition and rebuild of a residential renovation	
Other	Systems Administration: Designed and maintained advanced network solutions for a development group with almost zero down time and no loss of functionality for a Boeing subsidiary	
	Engineering: Designed electrical, mechanical and programming solutions for over three years	

Japanese: Studied Japanese for four years and lived in Japan for 3 months studying architecture





Story-driven observation deck, emphasizing of the rise, rebuild and the "resilience of the human spirit" after tragedy. One of the most popular tourist attractions in NYC with over 2.3 million visitors in the first year of operation.

Concept Design trough CDs/RFI 3D Modeling and Design Millwork and Detailing

Overall







Interior Views Lower Levels









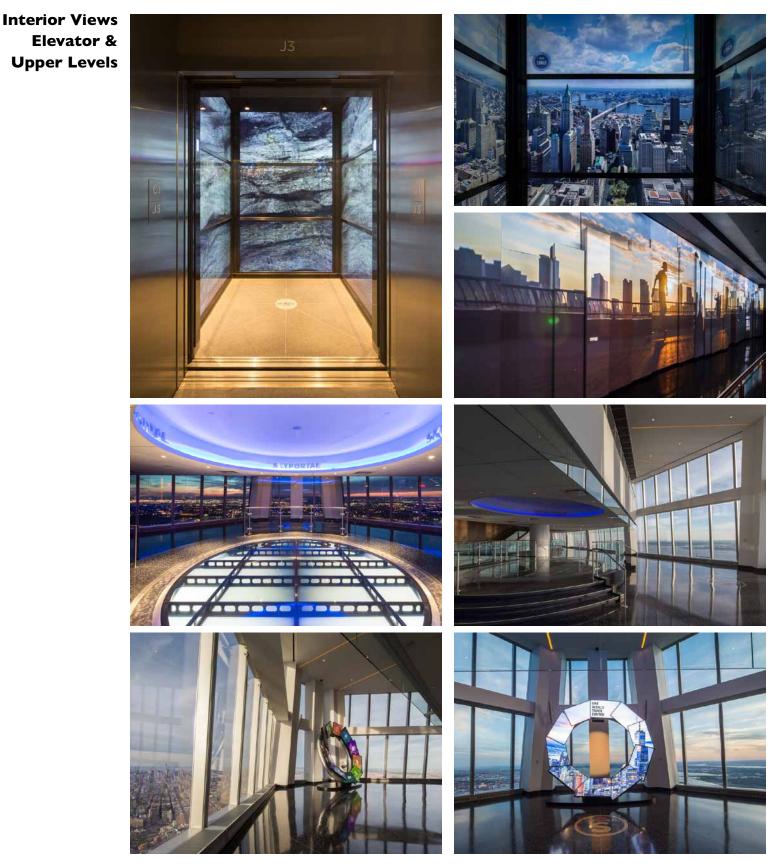






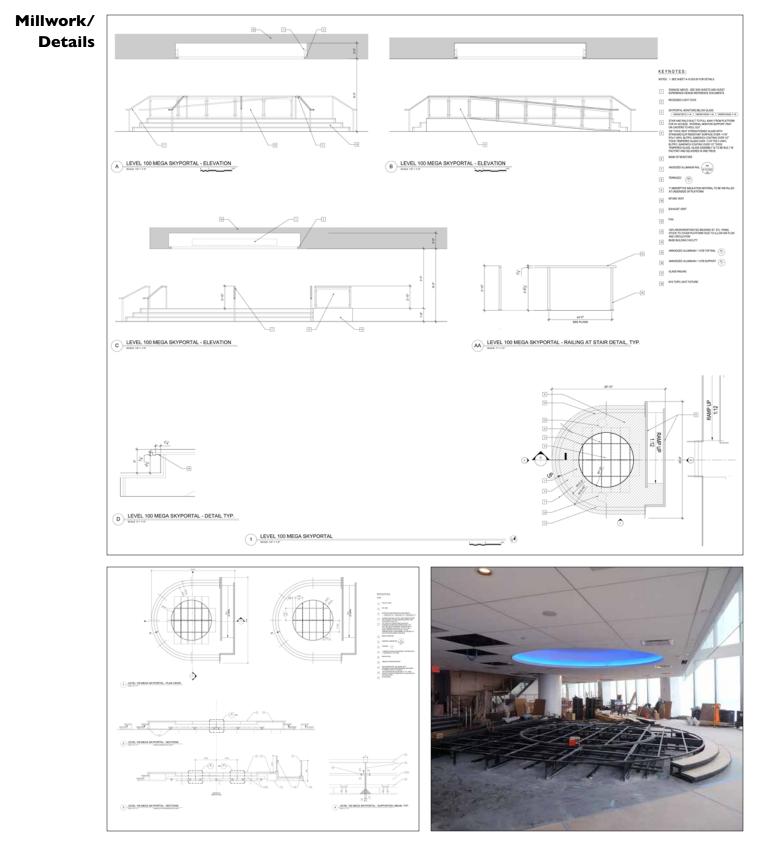
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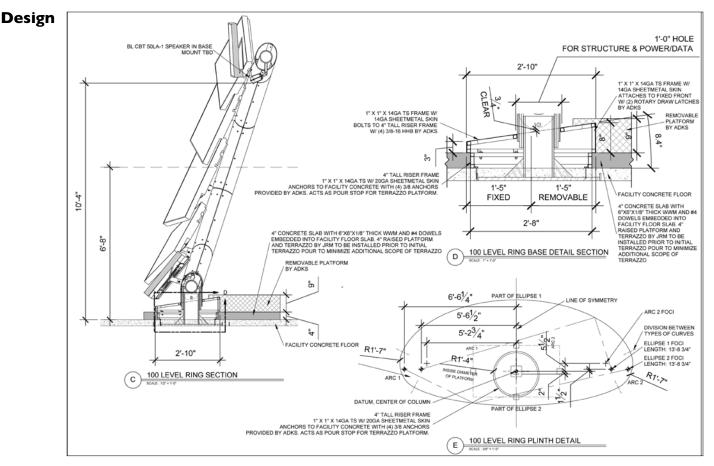
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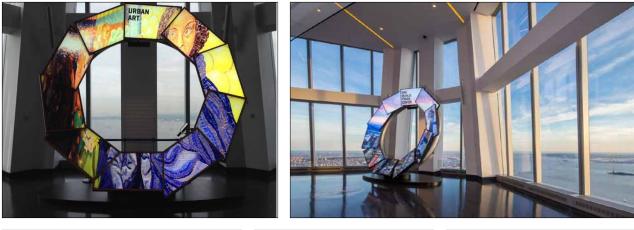


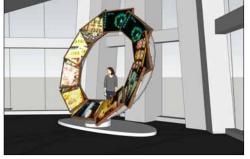


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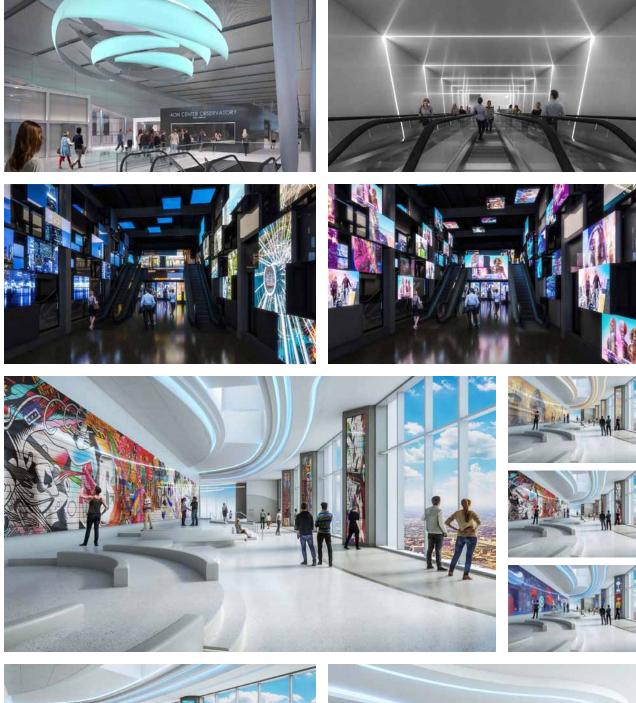




Aon Center Observatory Observation Deck at Aon Center - Chicago

Observation deck scheduled to open in 2020 that will tell the story of Chicago, highlighted by a multimedia experience and the country's largest and fastest external elevator as a unique skyscraper renovation. Concept Design trough DDs 3D Modeling and Design Millwork and Detailing AutoCAD, Rhino, SketchUp

Interior Renderings









Marcheeta Residence West Hollywood Hills - Los Angeles

Residence located on a 26,000 sf site above West Hollywood, focused on maintaining an open plan with a blend between interior and outdoor spaces. Emphasis was also put on maintaining privacy with complicated, existing site conditions.

Schematic Design trough CDs Coordination and Permitting Design Documentation AutoCAD, Revit

Overall Outdoor Conceptual Image



Additional Outdoor Views





Additional Indoor Views



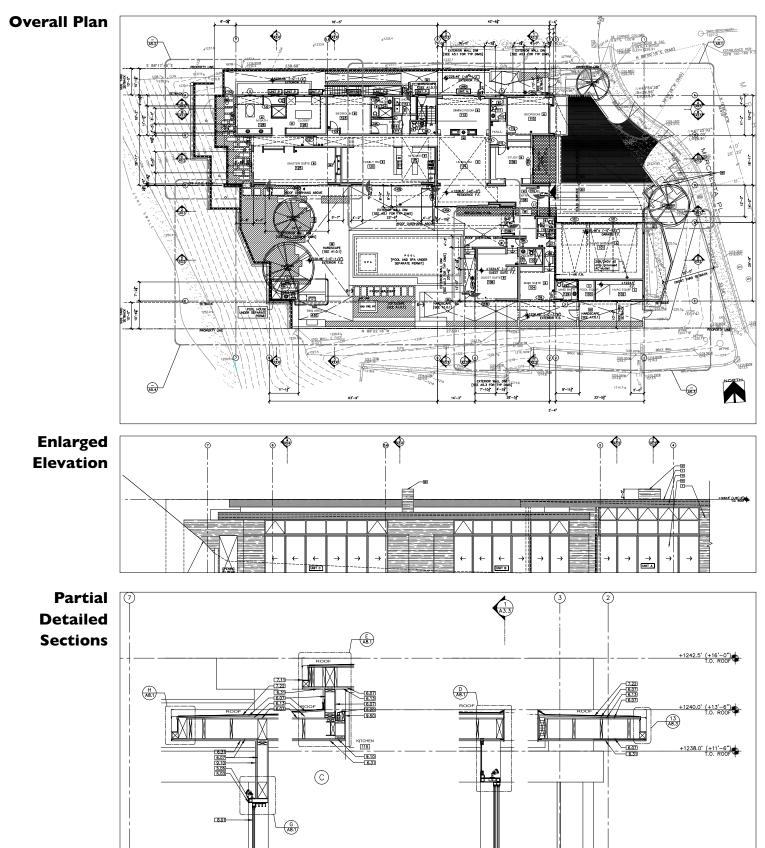




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Bowmont Residence Santa Monica Mountains - Los Angeles

Residence located in the Mulholland inner scenic corridor. This project was designed to entertain guests with a 2 story parking garage, theater and boasts a 300 degree view through a curved, 3 story bay window and from the infinity edge pool.

SD through CD (Renovation) Coordination and Permitting Design Documentation Revit



Construction Progress





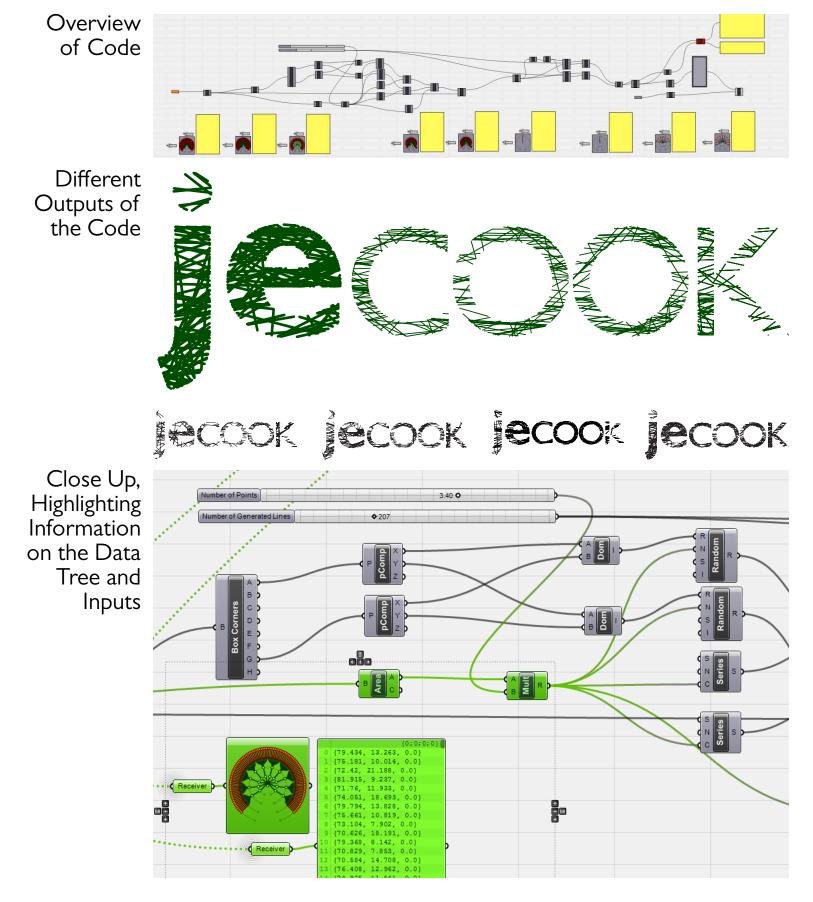
Conceptual Section





Grasshopper Script for Font Development

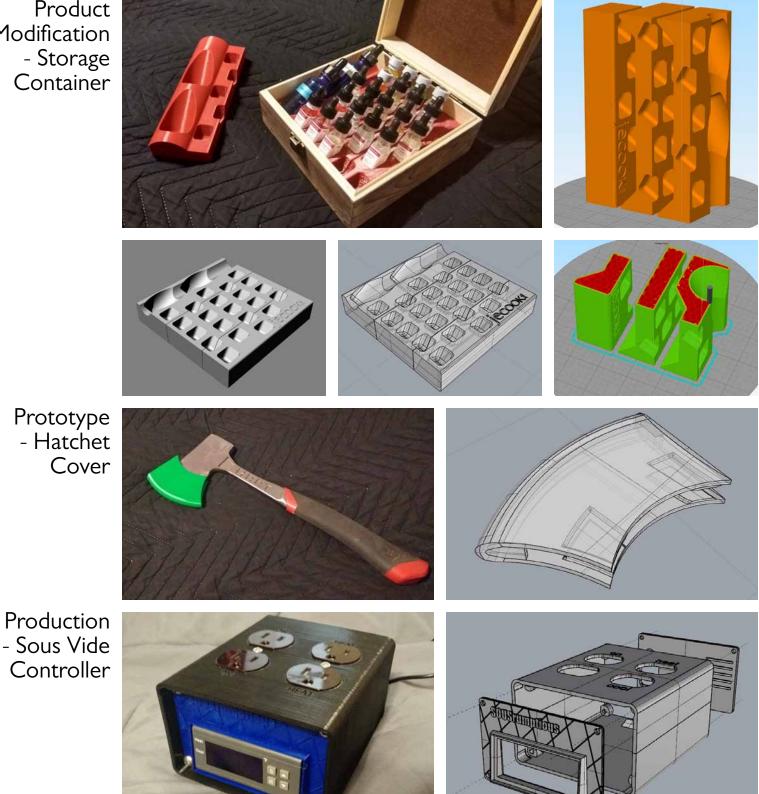
This script was written to develop a series of lines that inscribe and define the shape of text. This script generates random points within a box depending on area of each letter, projects these points on to the surface edge and then connect them. These lines are then projected onto the surfaces creating the implied letters. The major inputs are the letters, number of points and number of lines.





3D Prototyping Custom Designed and Constructed Products

Rhino to 3D print development process, typically with minimal mock-ups/redesigns and featuring high resolution (0.1-0.2mm layer height) usable parts in ABS, PLA or HIPS based on specific application and use. All parts were fabricated on a custom built delta 3D printer, designed specifically for vibration resistance, high resolution and speed.



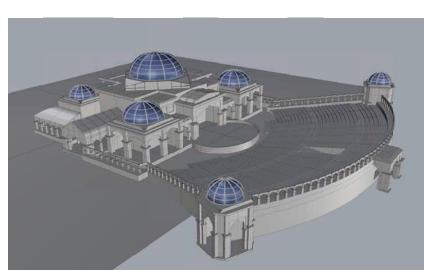
Product Modification - Storage Container

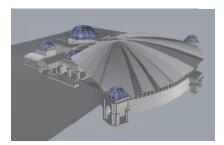


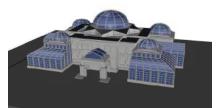


Design focused primarily on concept development and constructability for envisioned spaces. Development ranges from blue-sky art direction modeling to usability studies and conflict resolution with preexisting conditions.

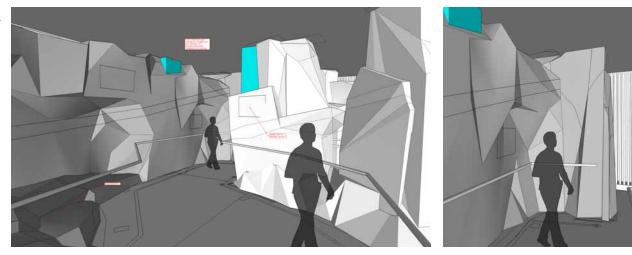
Building Massing - Rhino

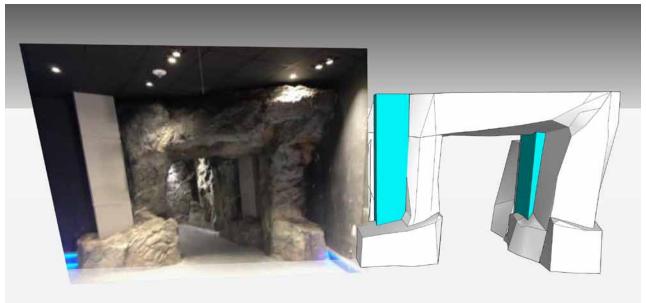






Rockwork -SketchUp

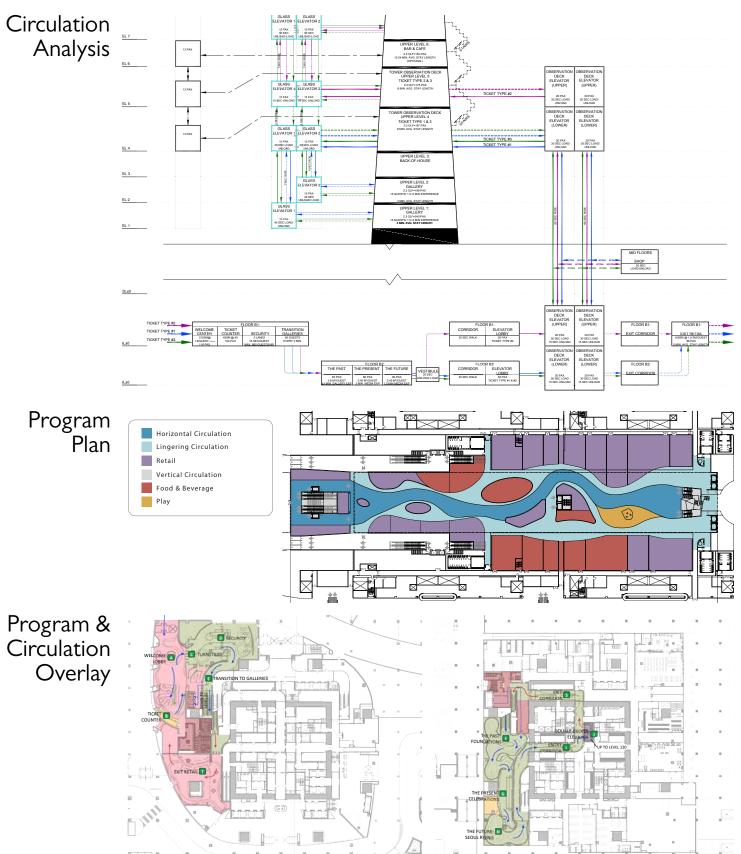






Design Analysis Various Projects

Critical analysis of guest circulation, theoretical hourly capacity and other critical project factors. Massing and overlay's done in AutoCAD and Adobe Illustrator primarily.





Expenditure: Renderings A Post Consumerism Paradigm Shift

This nine month project was an exploration on reusing existing abandoned shopping malls more appropriately in a down economy. This was done by turning this vacant center into a mixed use project aimed at the micro-environment surrounding the complex site.

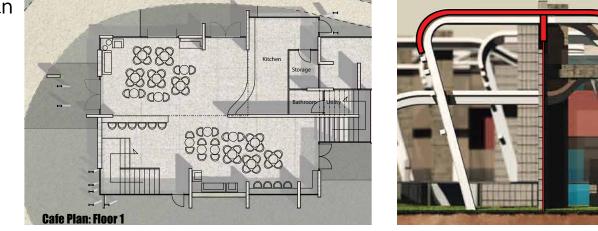
Perspectives



Site Section



Floor Plan





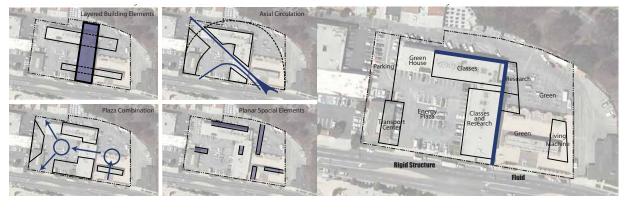


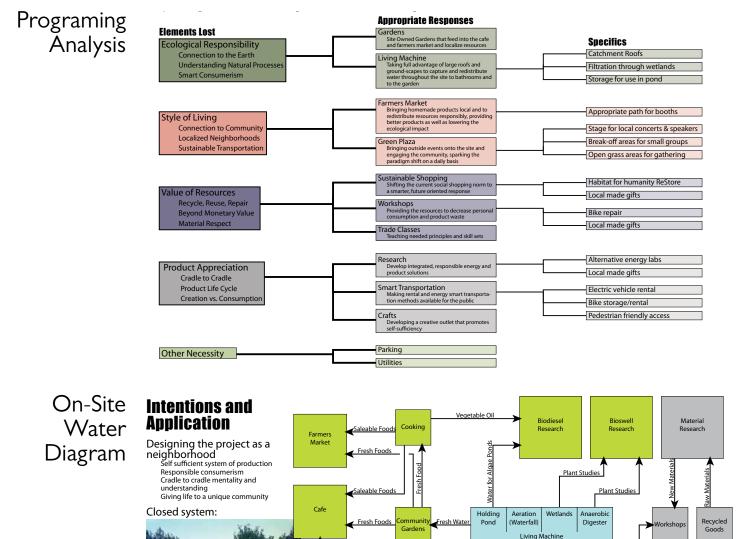


Expenditure: Analysis A Post Consumerism Paradigm Shift

In developing this project, many options were explored in regards to the existing structure. Also which a complex site and surroundings, much work was put into the program development and water conservation on site to remain sustainable.

Analysis Sketches





Water for Crafts and Shop

Support Spaces Products

Awareness Aerchandise

Craf

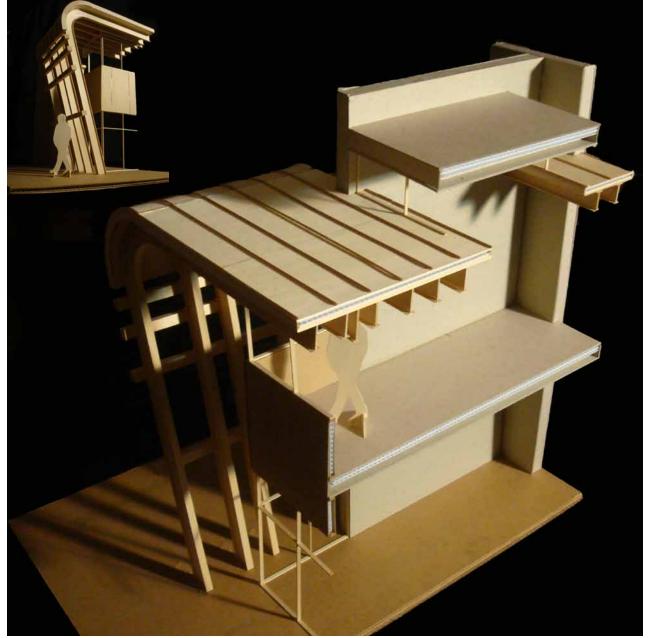
Resell



Expenditure: Model A Post Consumerism Paradigm Shift

For this development, efforts were taken to sustainably reuse existing structure (generally emphasized in the rendering with their rectangular nature) and implementing a new roof skin to engage and tie in different functions. This ribbon and rectangular dichotomy allowed for more sustainable movements for better resource management and energy efficiency.

Cafe Detail Model



Site Model

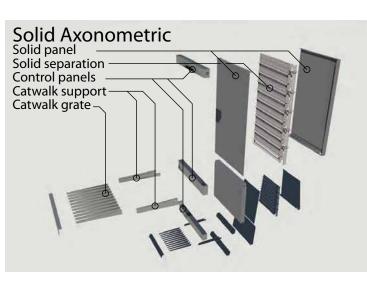




Water Conservation: Analysis Vertical Skin Water Treatment

This water conservation project was aimed at exploring the ability to treat water in a dense urban environment where traditional off-site methods might not be applicable. The project was modeled after the living machine method of water treatment, catching water on the roof level and then engaging the vertical skin for water treatment to minimize impact on precious urban real estate.

Rendered Component Details



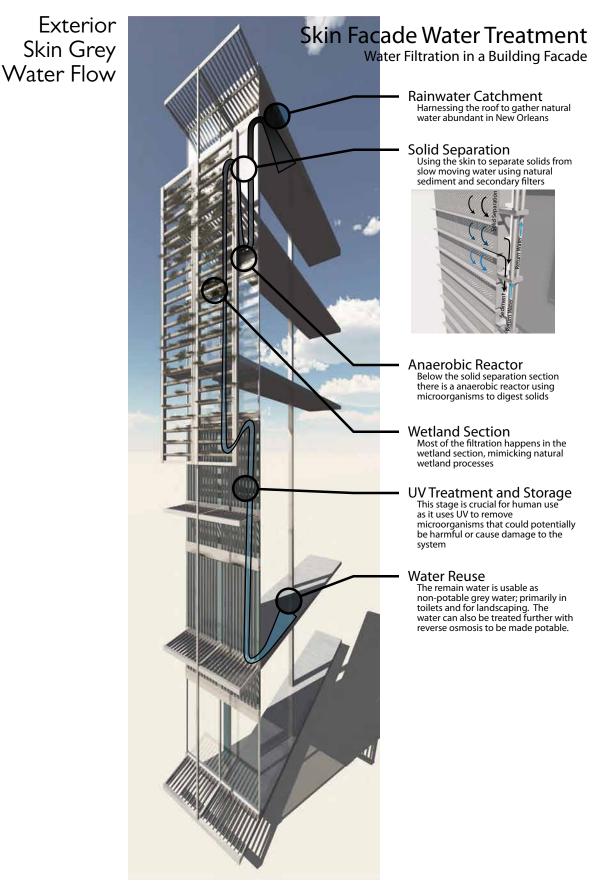


Skin Facade Diagram Solid Wetland UV 🛛



Water Conservation: Detail Vertical Skin Water Treatment

This detailed strip shows the water flow through the skin facade overlaid on a rendering. Using existing living machines as a standard for development, 3 primary sections of skin were developed to mimic the different areas as highlighted below. Each section (solid treatment, wetland and ultra violet) serves an integral part of the water treatment for the building.





Water Conservation: Model Vertical Skin Water Treatment

This model was built at 1/4" scale as a section through the Southwest corner of the facade. The system highlights the 4 different sections of skin and the secondary skin system on the west side. From this model you can also see the panel construction for the curtain wall that can be installed as single multi-story sections before plants and water are added to the system.

Skin Section 1/4" Model



