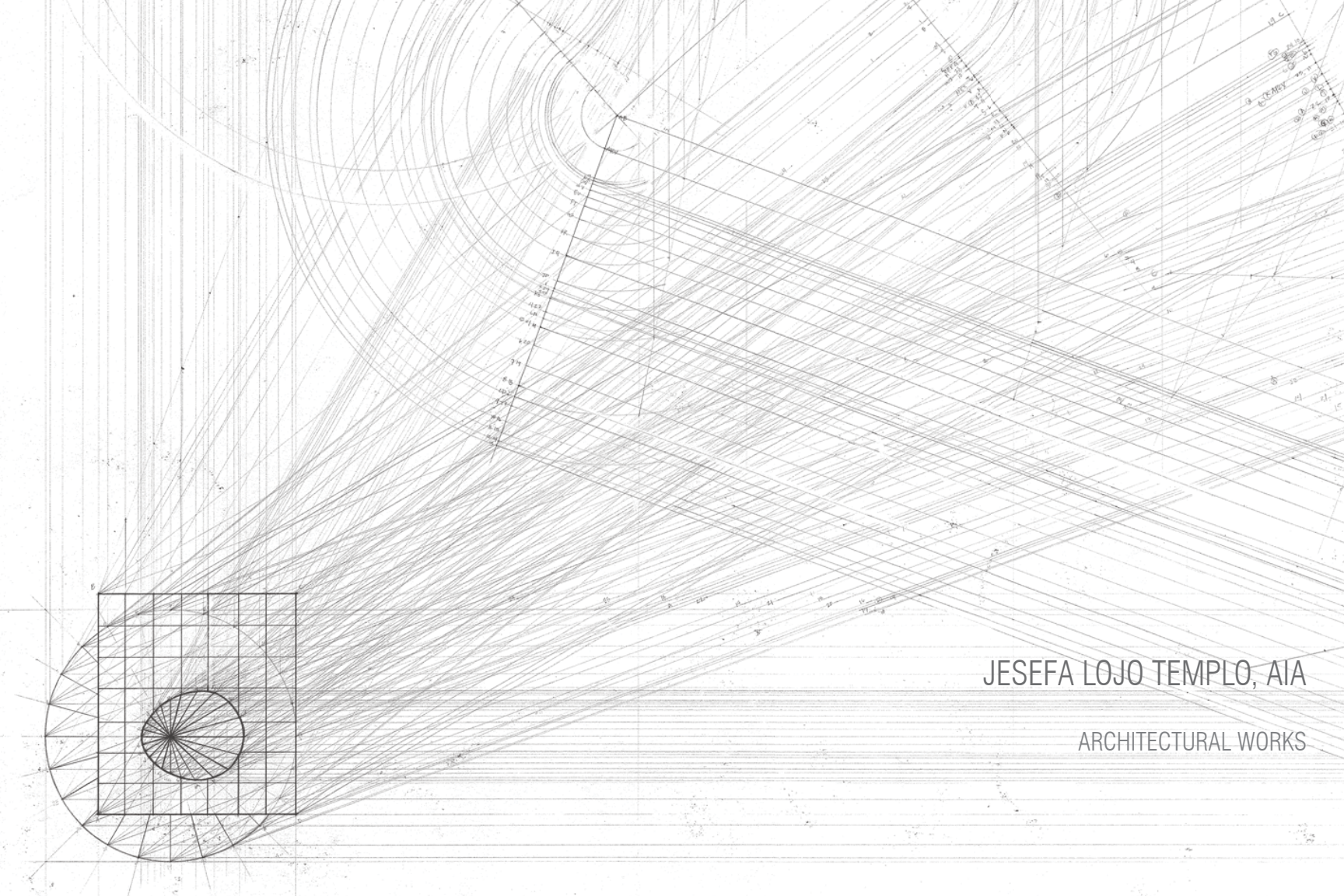


JESEFA LOJO TEMPLO, AIA

ARCHITECTURAL WORKS

UNION PARK

Pelli Clarke & Partners | Program: Mixed-Used| Status: 80% SD | 408,100 m2 | 185m - 303m
Toronto, ON, Canada | Role: Lead Designer on Residential Towers |June 2018

Union Park introduces a new, mixed-use development in a prominent location in downtown Toronto, adjacent to the Rogers Centre and the CN Tower. This redevelopment project helps fulfill the city's goal of expanding the Financial District through the creation of 18,000 jobs, contributing to the future prosperity of the region. With significant new office, residential, retail, and interior and exterior open space, this redevelopment area will truly provide a "live, work, play" environment in the heart of the city

Divided into two programmatic districts with two office towers to the east and two residential towers to the west, the design of this development makes a grand gesture to the city at both the skyline and pedestrian scales, while being respectful and supportive of the city's existing context surrounding the site. The project is in a desirable location between a variety of districts and seamlessly stitches together residential, commercial, cultural, and entertainment areas.

View from Lake Ontario

View from of Winter Garden from Front Street

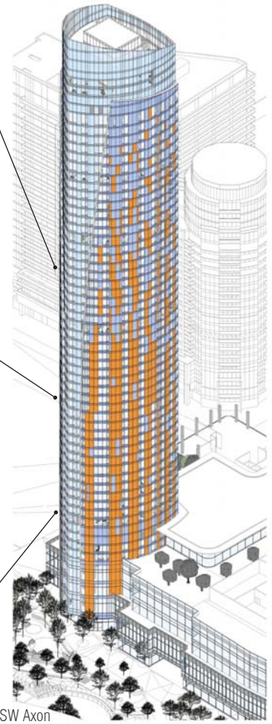
Unit Layout Dollhouse
750 M2 | 76% Efficiency

For the two residential towers, I assisted in producing massing studies, geometric derivations, and shadow studies. A specific unit mix was given by Oxford Properties to hit a percentage of studios, one bedrooms and two bedrooms, accounted for in the low, middle and high stack. Working with our AOR, Adamson Associates, we looked at the efficiency of the core along with the efficiency of our floor plate overall. Unit area layouts were developed to hit the unit mix in the low, middle and high stack.

Low High Stack [Level 31-40]

Low Mid Stack [Level 21-30]

Low Stack [Level 8-20]



SW Axon

Perspective Rendering by Norm Li

The design greatly expands pedestrian connectivity throughout the site and seeks to add an appropriate level of density adjacent to Union Station, a major transportation hub in the city. With substantial bicycle parking facilities and an extension of the PATH network directly to each new building, the design emphasizes multi-modal transportation connections and reduces the reliance on automobiles. It also supports the vision of a complete community by offering residential units that cater to diverse living arrangements, with a strong focus on multi-bedroom units and extensive amenity spaces.

With the addition of a 2-acre park built over the adjacent railway, the development creates critical green space in the city, with year-round programming for diverse user groups. It integrates the rail corridor into the urban fabric, utilizing an element that currently divides the downtown area from its waterfront neighborhoods to reconnect key cultural amenities to the greater city. Union Park will be a dynamic and expressive form in the skyline and transform this piece of the city.

View from Front Street and Blue Jays Way

Track Overbuild by Office of James Burnett

CHINA ELECTRONIC CORPORATION HEADQUARTERS

Pelli Clarke & Partners | Program: Commercial | Invited Competition | 157,600 m2 | 70m - 169m
Shenzhen, China | Role: Lead Designer on Podium | December 2019

Located right next the to Vanke Headquarters, Vanke CEC's concept was to create a playfulness of dancing towers with respect to the existing urban green that would extend vertically, producing an infinite green. The towers were shaped and sculpted in respect to the views of Shenzhen Bay. Masses were also broken down through the creation of portals that cut through the towers, creating observation spaces. Extension of the green would be filled into the cavities of the towers, finally ending at the top stepped terraces for both vegetation and views.

Sectional Perspective Rendering by ATCHAIN

Plan Rendering by ATCHAIN

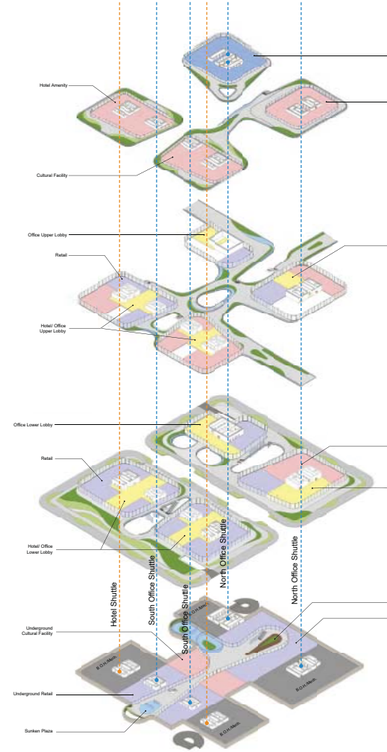
Podium Rendering by ATCHAIN

Level 2

Level 3

Adjacent to the CEC Headquarters is Binhai Avenue, the north-south central green axis perpendicular to the east-west Shenzhen Bay coastal area. This green "T'-shaped access, strengthens the east-west urban functional axis, thus forming a strong node near the CEC HQ. Drawing concepts of this original green urban planning, the extension of this park would make its way into the vertical garden of the CEC towers.

Horizontal connectivity was also important between the four towers. The green urban fabric would make a way around the perimeter of the towers, providing landscaped access and way-finding to amphitheaters and water features around the site. At the bottom of the belled towers are stepped terraces that spill into the podium, providing an extension of the urban fabric. Because the base of the towers are drawn outward to create this cavity, the horizontal vegetation are pulled up from the ground plane along the tower, providing a vertical garden and views from the interior.



Exploded Axon of Podium

Podium Rendering by ATCHAIN

Anchor Point of Podium Connectivity

PELI PELI AUSTIN

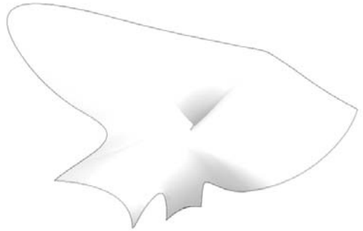
Reach Architects | Program: South African Restaurant | Status: Concept | 5566 ft2
Austin, Texas | Role: Project Manager/Lead Designer | Fall 2016

"The Lord God made all kinds of trees grow out of the ground—trees that were pleasing to the eye and good for food. In the middle of the garden were the tree of life and the tree of the knowledge of good and evil."

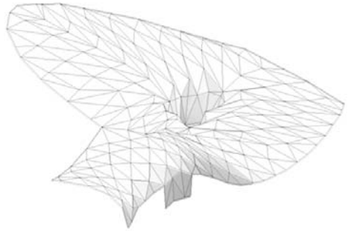
--Genesis 2:9

Peli Peli Austin is 5566 square foot South African restaurant located in the heart of Downtown Austin. It's fifth location among Peli Peli, Chef Paul Friedman combines the flavors of South African cuisine with Dutch, Portuguese and Asian influences. A Christian at heart, Chef Paul Friedman celebrates his Judaic and Christian roots. Inspired by the Acacia Tree or the Tree of Life represented in the scriptures, it becomes the focal point in most of his restaurants. The Tree of Life provides the breath of life and nourishment of the soul, which embodies the values of Chef Paul Friedman's gifts and talents he shares with the 300 people dining in his restaurant. As the roots dig deep into the soul of the earth, the trunk establishes a strong foundation. It embraces the Earth with its roots and recognizes the soil as its mother. In its branches, it reaches out to accept nourishment of the sun. In its leaves, it captures that nourishment and transforms food giving life. As we dine under the canopy at Peli Peli Austin, we are reminded of the importance of The Tree of Life, giving us the first possible natural shelter and bearing its fruit for its inhabitants. Chef Paul Friedman claims as we eat naturally, we are also fed spiritually; to eat from the Tree of Life symbolizes eternity in God's Paradise.

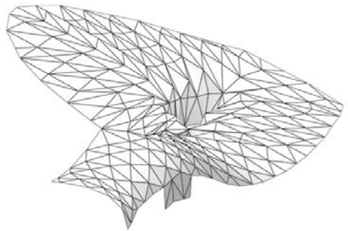
Interior dining area



1. Freeform Surface



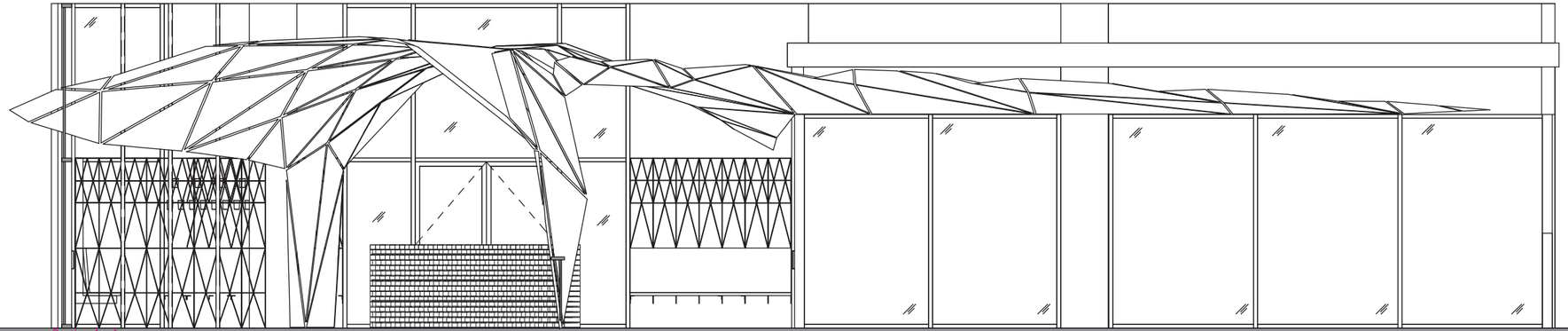
2. Panelized Diamond Surface



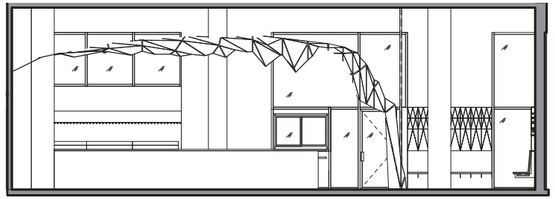
3. Offset Surface

Tree of Life

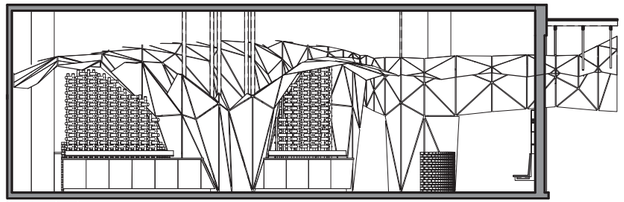
The canopy is made up of approximately 65, 12-gauge metal exterior panels, while the interior is made up of 351, ¾" birch plywood panels cut out from 5' x 10' plywood sheets. A grasshopper script was made to take a single curved surface, create a diamond grid panelized surface and offset each panel to create a 1" gap in between each panel. Aluminum telescopic tubes were made by the fabricator, in order to support the panelized surface, either from the existing slab above or from interior steel or concrete columns. The panels were then clipped together by butterfly clips in between the panels to create one rigid singular surface. The intent of offsetting each panel inward to create a gap between the panels is to have LED lights above and below the canopy to change and oscillate through different colors. The plywood panels would act as a backdrop to the LED lights projects on the canopy itself, while also providing light to shine through it.



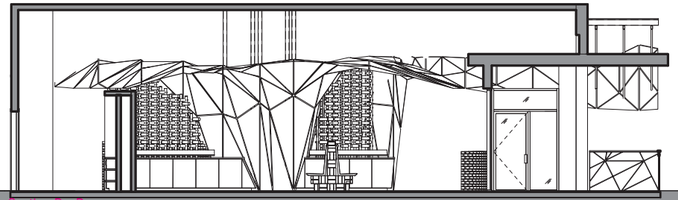
Section A - A



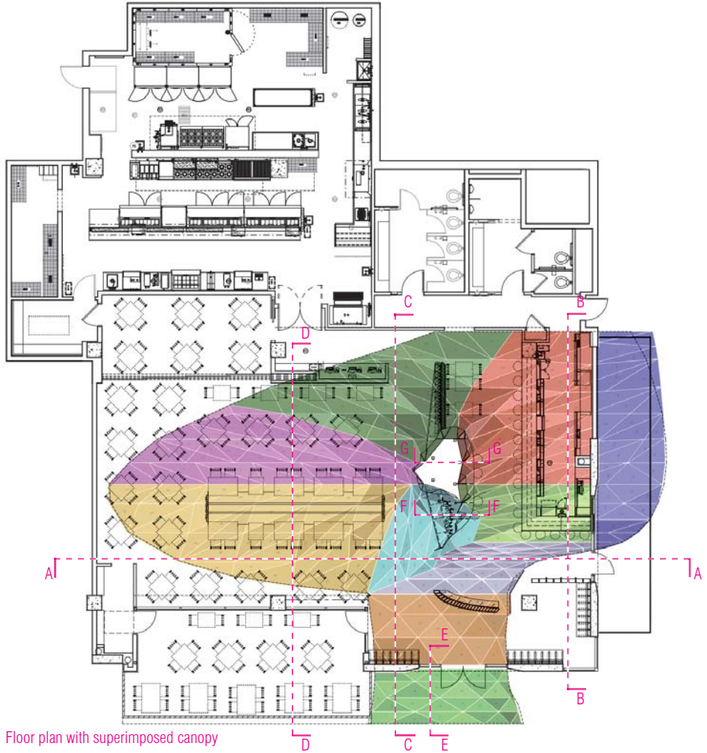
Section B - B



Section C - C



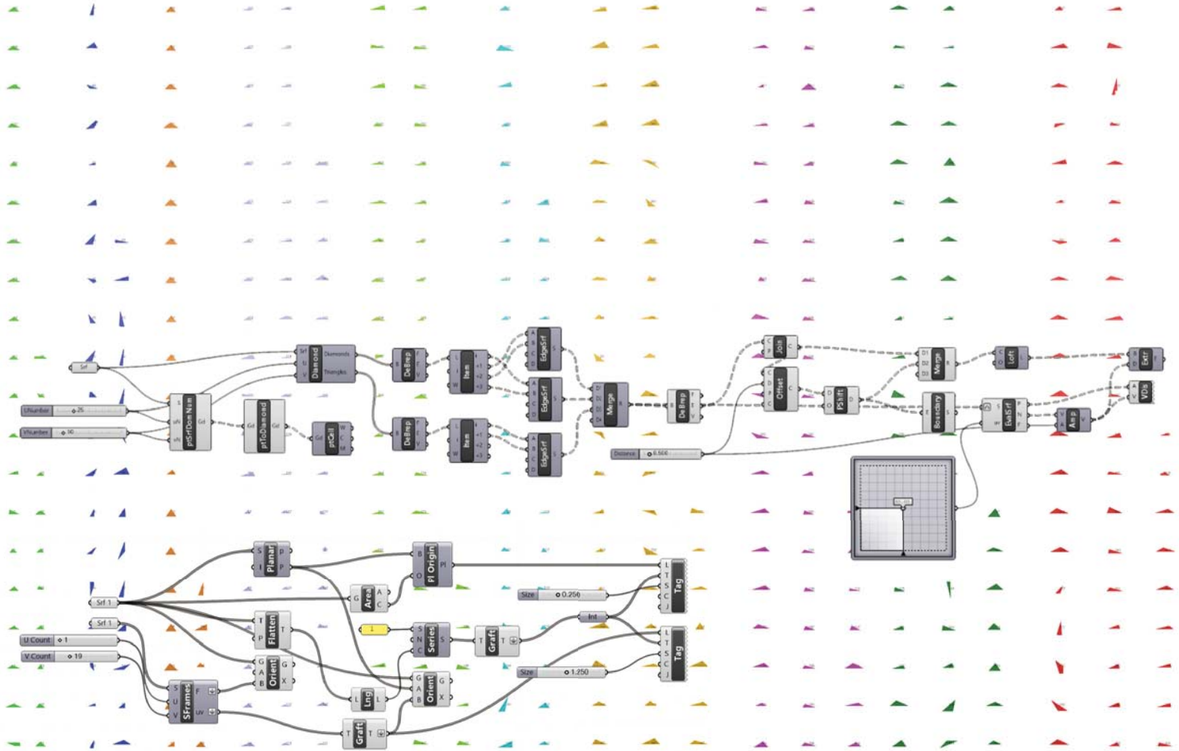
Section D - D

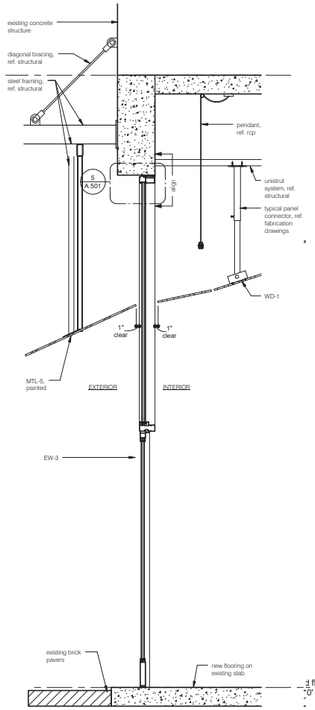


Floor plan with superimposed canopy

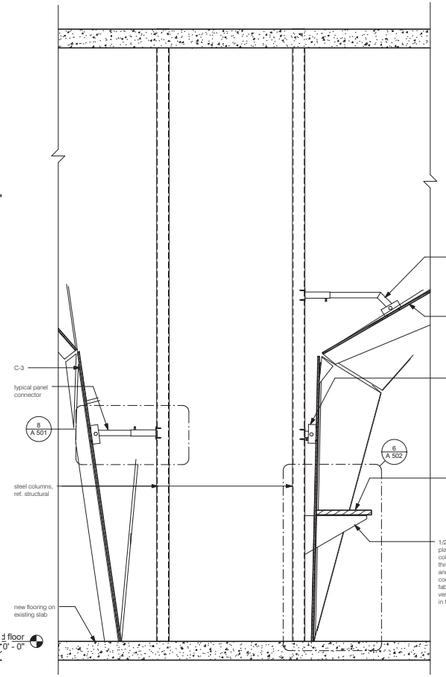
Fabrication and Installation

As the canopy was laid out, I began to think about how the canopy will begin to be fabrication and installed. Each panel is unique to its own shape and needs to be itemized. I began by splitting the canopy up into 10 manageable sections that has about 30-40 panels. Each section is color coded for the fabricator. A grasshopper script was developed in order to tag each panel with a sequential number, take the panel itself and unroll or flatten the surface. The flattened panels were then laid out on a grid with its respective tagged number. We could then easily count the approximate number of plywood panels needed and the actual square footage of birch plywood needed. This will ease the process for the fabricator as he or she begins to lay out the panels to be cut out by a laser cutter and installed onsite.

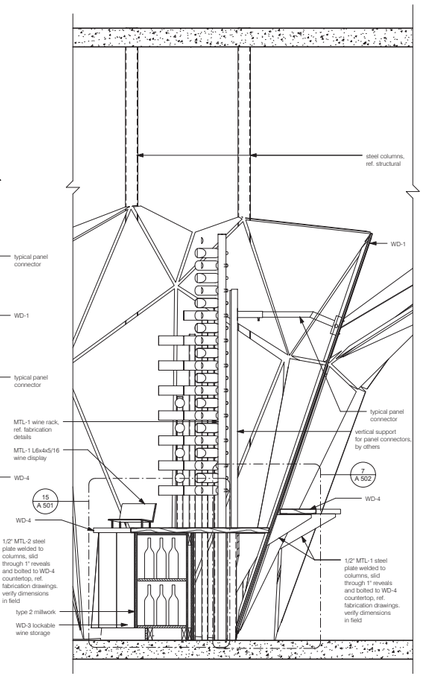




Section E - E



Section F - F



Section G - G

Mock up of LED lights underneath panelized surface

LED lights projected through panelized surface

PELI PELI KATY

Reach Architects | Program: South African Restaurant | 3964 ft2 | Status: Completed
Katy, Texas | Role: Project Manager/Lead Designer | Fall 2016

"As buds give rise by growth to fresh buds, and these, if vigorous, branch out and overtop on all sides many a feebler branch, so by generation I believe it has been with the great Tree of Life, which fills with its dead and broken branches the crust of the earth, and covers the surface with its ever-branching and beautiful ramifications."

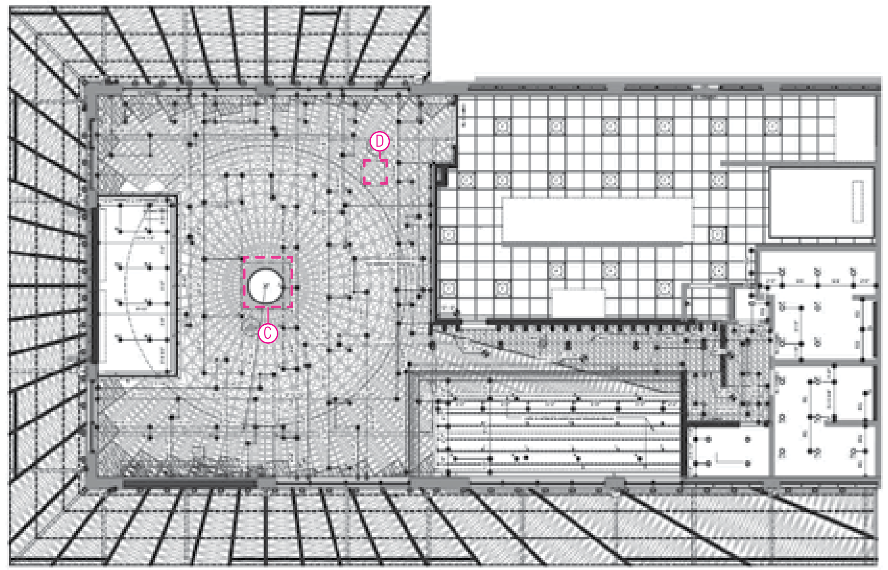
--Charles Dawrin, *The Tree of Life*

After establishing Peli Peli in Vintage Park, The Galleria and Peli Peli Kitchen all located in Houston, Chef Paul Friedman opened his fourth installment of Peli Peli in Katy. The 3,964 square foot restaurant will house 223 occupants dining under the similar concept as its sister restaurant located in Austin. Having designs running parallel and tangent to each other, Peli Peli Katy's concept is similar to The Tree of Life. Because of the abundance of natural light and having storefront exposed on all three sides of the restaurant, the idea was the have the tenants dine under a pavilion that extended from interior to exterior. Opposite of having the trunk be exposed found in Peli Peli Austin, the trunk is a void or a shaft of light found in an oculus at the top and middle of the canopy. From the oculus, the ribbed canopy will drape down on a radial grid. The 2x4 laminated plywood ribs are all similar, will be cut on a jig and will be suspended from the existing structure above. As the curved ribs flatten out, they will elongate from the center oculus until it hits the exterior and turns into a metal canopy superimposed with the same pattern. Interlaced between each of the ribs is 5/6" twisted polypropylene rope that ties the radial ribs together to create a porous canopy. LED lights will be installed on the laminated plywood ribs as well as drape through and around the structure.

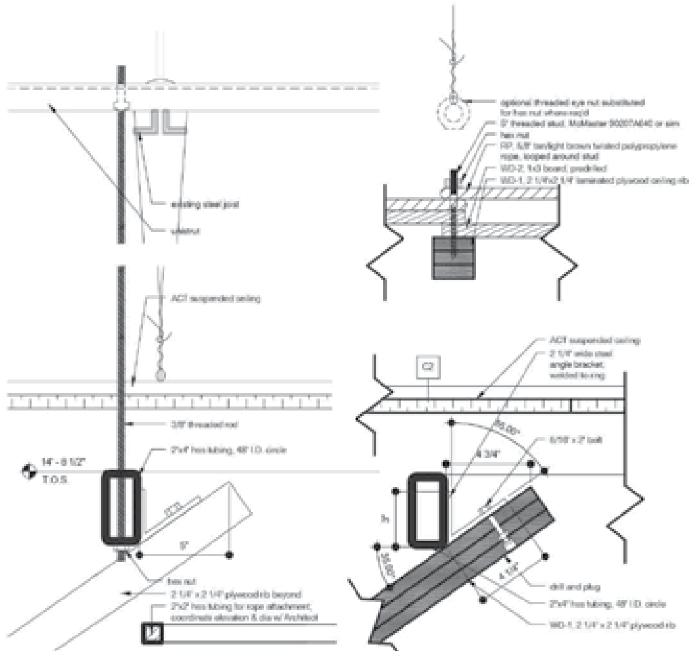
Interior view of dining area

Construction Process: https://www.instagram.com/p/BUKsrb9l_qN/

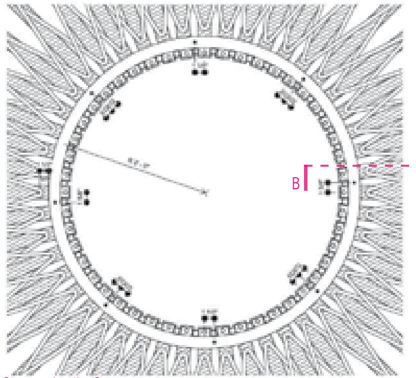
Canopy Construction



Reflected ceiling plan

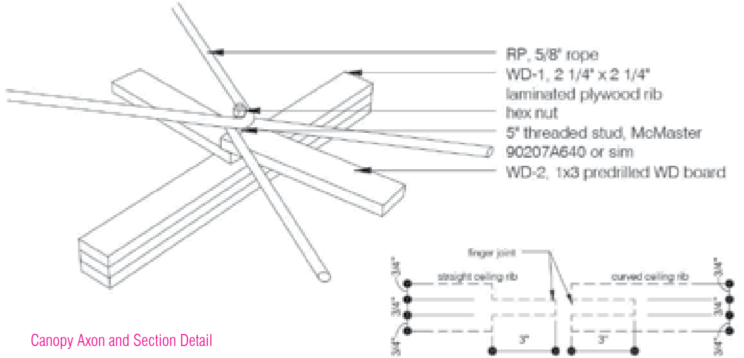


Section detail - B



Canopy detail - C

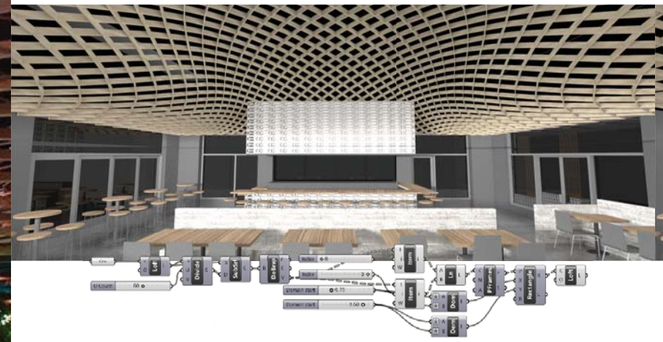
Canopy detail - D



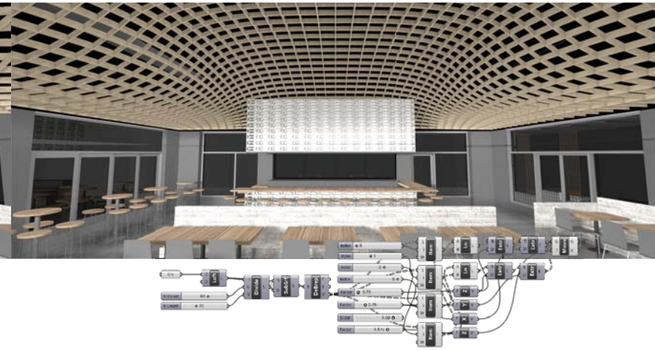
Canopy Axon and Section Detail

Dining Area

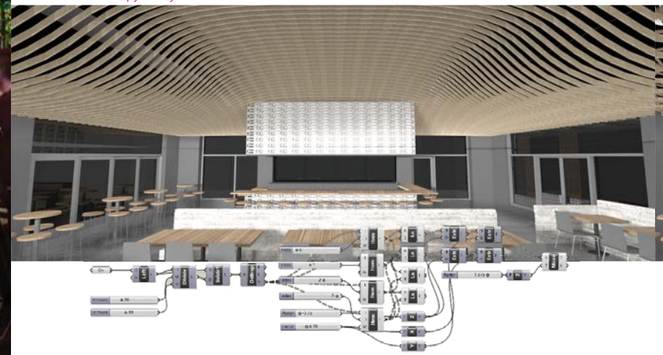
1. Canopy Study - Diagonal



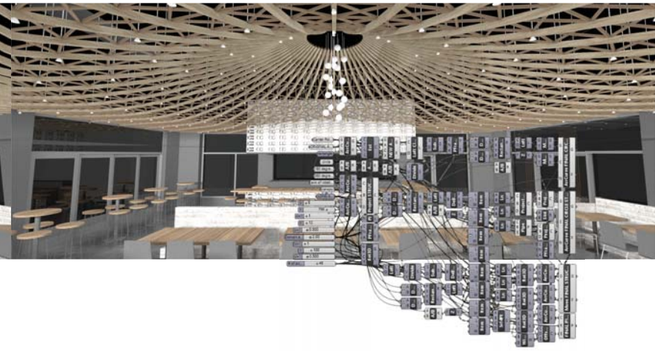
2. Canopy Study - Square



3. Canopy Study - Linear



4. Canopy Study - Tent



Night rendering of exterior dining area

Finished construction of exterior dining area

MIA ITALIAN TAPAS AND BAR

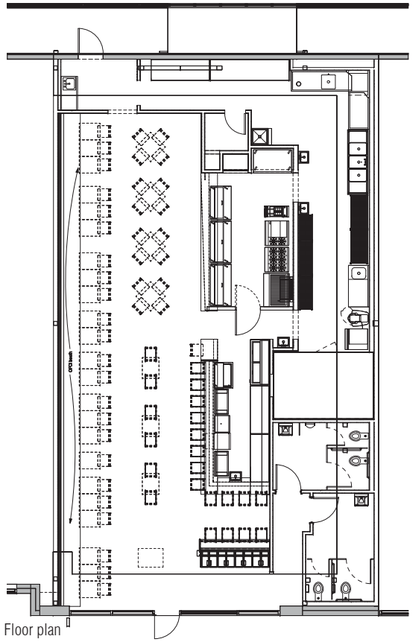
Reach Architects | Program: Italian Restaurant | 2886 ft2 | Status: Completed
Austin, Texas | Role: Project Manager/Lead Designer | March 2015

"Rather than elaborating solely on the more facile comparison of 'like an architect, so too the chef,' we propose that the rituals of dining, the design of meals, and the process of cookery form and inform a distinctly expressive architecture."

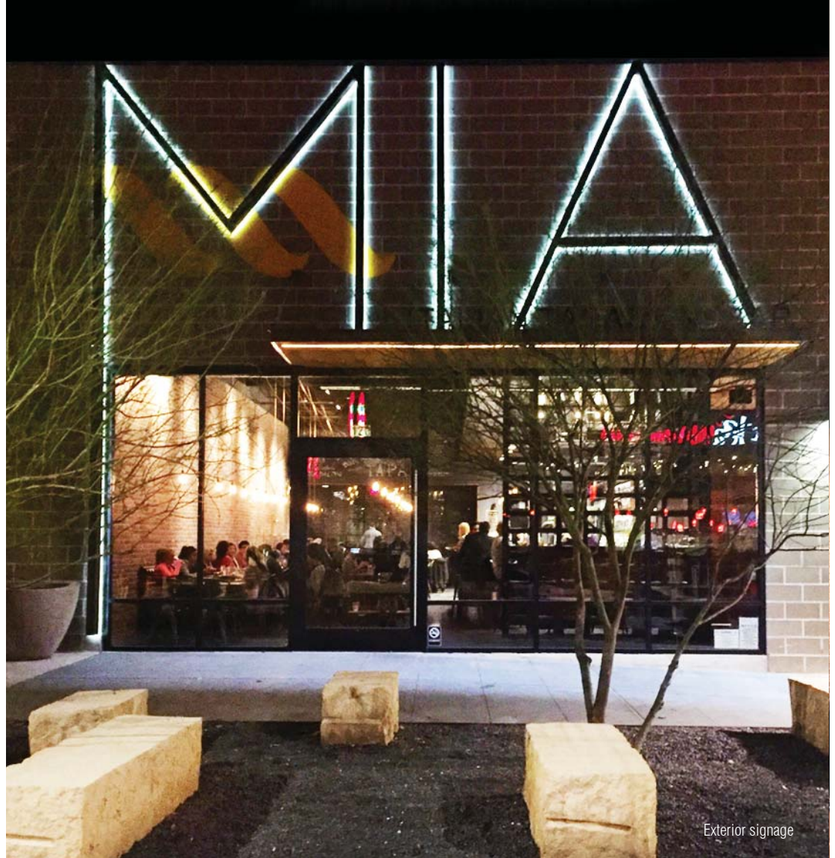
--Jamie Horwitz, Eating Architecture

MIA is a modern Italian tapas restaurant and bar, named after the owner's daughter. The restaurant is part of the most recent urban expansion at The Domain, a mixed used development in North Austin. Nestled on Rock Rose Avenue, MIA is neighboring to many other popular restaurants and bars. Starting with an empty masonry and steel frame shell, the design was influenced by industrial craft and the use of simple raw materials. The exterior storefront and signage creates individuality, contributing to the overall character of the street presence.

Concept Rendering



Floor plan



Exterior signage

Chimney flue detail

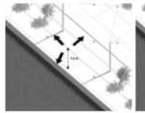
Interior view

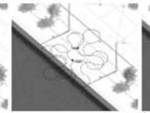
WATCH FLOWER

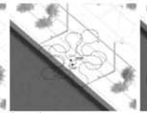
Bjarke Ingels Group | 250 m2 | Invited Competition
Aarhus, Denmark | Program: Watch Tower | September 2013

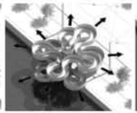
Partners in Charge: Bjarke Ingels, Finn Nørkjær
Project Leader: Søren Martinussen
Project Team: Spencer Hayden

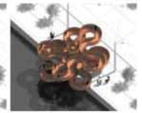
WATCH FLOWER is created as a three dimensional promenade that floats in the space above the harbor edge and the water at DOCK 7 in Aarhus Harbor. A 155m long sloping promenade meanders like a mountain path along a cliff side peaking at the height of 7.5 meters. Designed with handicap accessibility, head clearance and statics in mind, the promenade takes shape as a flower gradually growing from the concrete harbor edge towards the sky. Each turn offers a new viewpoint with unique views to Aarhus Cathedral, the historical city centre, the leisure harbor and the Aarhus bay area. At the peak of the flower a spiral stair offers an opportunity for a fast exit down.

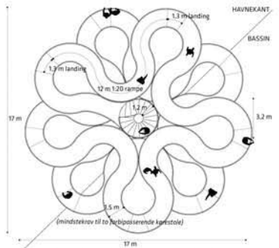

7.5m Desired Height

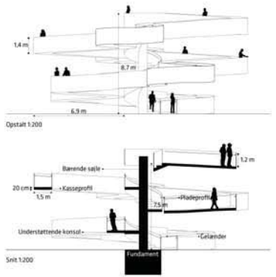

1:20 Procession Up


Spiral Staircase Down


Each Petal: Unique View


New type of the water tower






Overlooking Dock 7


Boardwalk View


Harbor Front View


Water Front View

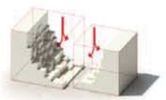
QATAR MEDIA HEADQUARTERS

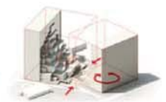
Bjarke Ingels Group | 653,700 m2 | Invited Competition
Doha, Qatar | Program: Residential/Commercial | December 2013

Partners in Charge: Bjarke Ingels, Andreas Klok Pedersen
Associate in Charge: André Schmidt
Project Leader: Christin Svensson
Project Team: Lorenzo Boddi, Song He, Jan Magasanik, Joao Albuquerque, Liao Hung Kai, Anu Leinonen, Enea Michelesio, Camila Luise de Andrade Stadler, Junjie Yan, Dimitrie Grigorescu, Jakub Mateusz Wlodarczyk, Jan Pietrzak, Jonathan Qaade, Katerina Joannides, Miao Zhang, Mikolai Adamus, Nicolas Millot

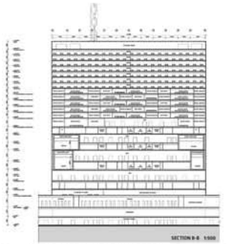
Media at its core is about communication between people. The Media Headquarters Building is designed to maximize the interaction between staff, visitors and audience under one common roof. A single tensile canopy spans between the two towers covering a vertical village of newsrooms and broadcast studios. The Qatar Media Headquarters will form a framework for international broadcasting grounded in the specific culture and place of Doha Qatar, reflecting the core elements that characterize the Media HQ. We have been inspired by the bazaars, the tiled ceramic roofs and the architectural use of textiles indigenous to the Arab world.

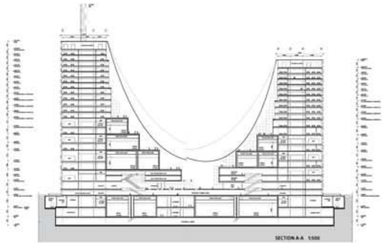

Two Blocks

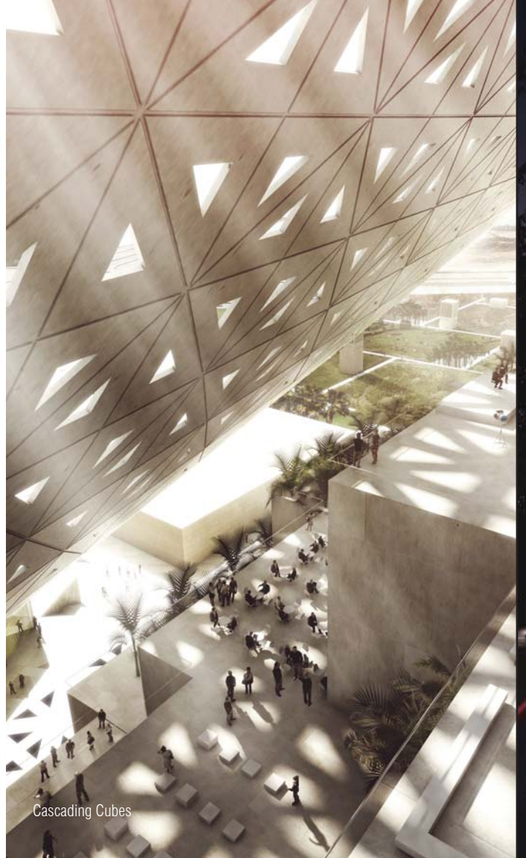

Cascading Cubes


Adaption to Site


Shaded Communcal Space





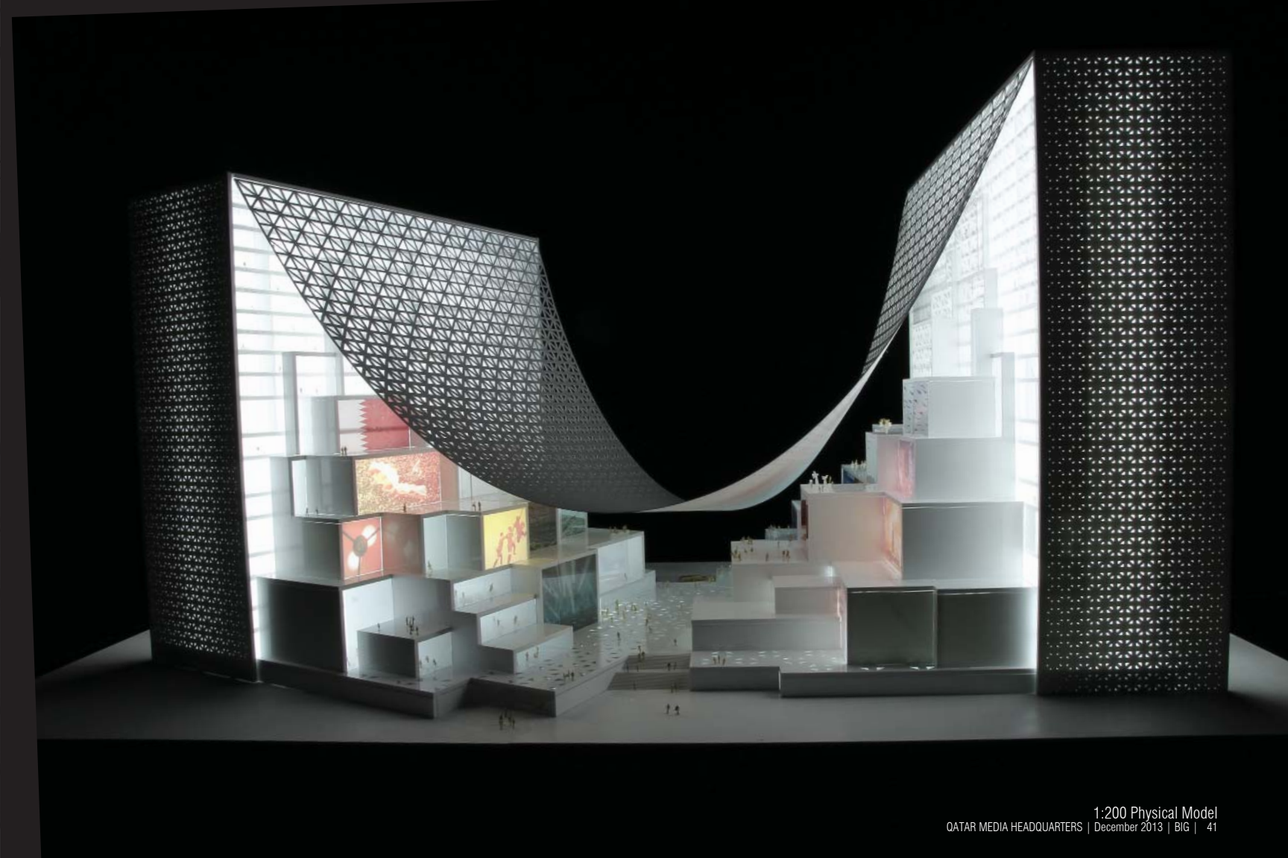

Cascading Cubes


Street View

Entry Perspective

Backlit LED Cubes

Sectional Interior View



1:200 Physical Model

CHROMASCAPE

UTSOA | Program: Light Installation
Austin, Texas | Clay Shortall | Spring 2013
Collaboration with Mike Beene

"Color has in its abstraction an enormous psychological and associative potential, and even though it has been cultivated to the extreme, the amount of individuality in experiencing colors is equally extreme."

--Olafur Eliasson, *Some Ideas about Color*

Architects have long understood the profound relationship between color and the built environment. While there is a predetermined symbolism inherent in color, its meaning is ultimately dependent upon individual interpretation. Furthermore, this phenomenon is affected by language, and the words that we have to describe color. The intention behind CHROMASCAPE is to create a way for a person to 'inhabit' a color. CHROMASCAPE allows color to be viewed at its most fundamental level, thus heightening one's awareness and personal response to it. Over a half of a mile of white mohair yarn was suspended from the ceiling which captures light from a digital projector. The installation's color slowly changes based on the movement and position of people occupying the space, as observed from two infrared cameras.

CHROMASCAPE Exhibition | 4.16.13

1. Color Cube

This three dimensional mapping of the English color words shows relative densities and gaps in our color language. By mapping our color language in three dimensions, we were able to identify the biases that structure how we perceive, remember, and associate with various hues. We then asked how this impacts our perception of architectural space. Areas with high concentrations mean that there are many words for that particular color range. Sparse areas indicate parts of the spectrum for which we have few to no words for.

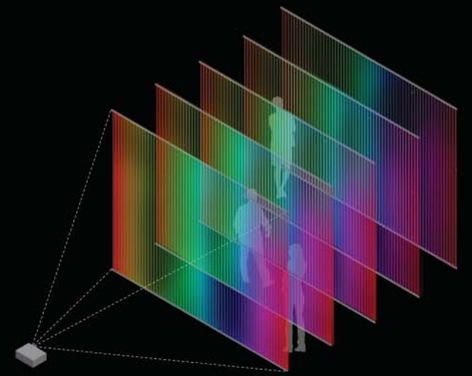
2. Installation Axonometric and Plan View

Five panels approximately 10' by 8' were constructed with over half of a mile of hand-made mohair yarn, spaced every 2 inches. The mohair yarn provided an inert substrate for the capture of light. With the help of Processing, a programming language, used along with a Microsoft Kinect, the installation slowly changes color while reacting in real-time to the presence of people using two infrared cameras.

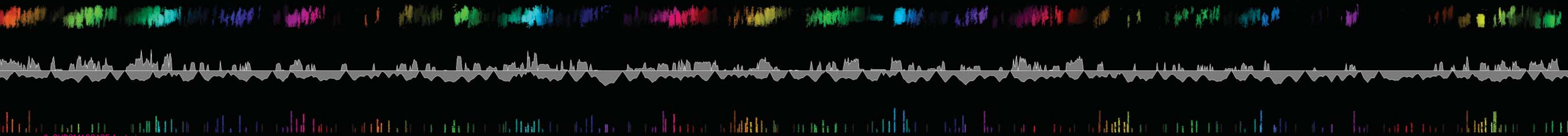
3. CHROMASCAPE Analysis

A documentation of the CHROMASCAPE exhibition was performed. As the panels transversed through the color spectrum from the digital projector, the inhabitants superimposed color in real-time was recorded. What's shown are millions of points in spaced in the shape of a person's silhouette moving throughout the installation over the course of 4 hours. The peak hours are shown with the highest density of points. The installation's projected color recorded was then compared to our initial color cube analysis, which represents the actual 175 named colors in our English language. The bar graph shows how far these projected colors deviated from our limited color language.

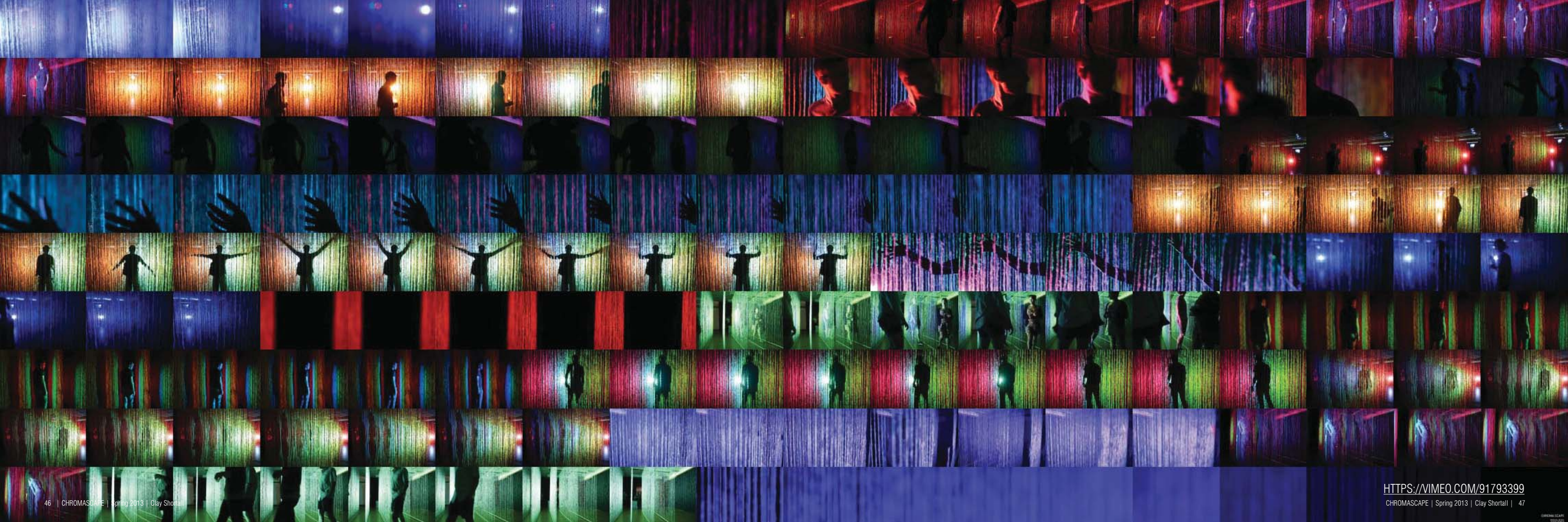
1. Color Cube



2. Installation Axonometric and Plan View



3. CHROMASCAPE Analysis



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CHROMASCAPE Exhibition | 4.16.13

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ARCHITECTURAL DESIGN EXPERIENCE

PELLI CLARKE & PARTNERS

Architectural Designer | New Haven, CT | September 2017 - Present

- Lead designer in various masterplan competitions in non-disclosed locations, producing storyboard concepts, rapid design, physical modeling, project visualization, animations and documentation.
- Participate in Request for Proposal solicitations and interviews with Key Players and Owner's Representatives.
- Assist teams in producing conceptual designs, massing studies, geometry derivations, shadow studies, efficiency area unit layouts for residential schemes and detail facade studies.
- Assist teams in developing 100% Schematic and Design Document drawings for high-rise commercial and residential projects in Toronto, Monterrey, and Dallas.
- Coordinate program requirements with owner and developer and zoning requirements with the city and AHJ.
- Coordinate with AOR and technical consultants such as Structural, MEP, Vertical Transportation, and Parking.
- Support Construction Administration procedures by responding to Request for Information and coordinating on-site issues with the AOR, Contractor and Owner's Representative.
- Direct internal coordination by attending client meetings and hosting coordination sessions with consultants.
- Conceptualize and develop design renderings in-house using Enscape for Revit and Lumion.
- Help implement BIM Standards across studios.
- Major Projects:
  - Union Park | Toronto, ON | Oxford Properties | Mixed-Use | 4.4M SF
  - Vanke Shenzen Headquarters | Shenzen, China | Vanke | Office, Retail, Hotel |431,000 SF
  - Arboleda La Nube | Monterrey, Mexico | One Development Group | Residential |1.3M SF
  - American Airlines Hospitality Complex | Dallas, Texas | American Airlines | Hospitality | 530,000 SF SM

RAVEL ARCHITECTURE

BIM Manager/Architectural Designer | Austin, TX | February 2017 - July 2017

- Managed technical design by producing permit sets, construction drawings and design details while coordinating directly with the owner and technical consultants.
- Attended site visits to ensure Quality Control/Quality Assurance for the Design Build project delivery method.
- Major Projects:
  - Cedar Oak Residence| Westlake, TX | Single-Family Residence | 6,500 SF
  - Glencliff| Austin, TX | Single-Family Residence | 4,600 SF

REACH ARCHITECTS

Project Manager/Architectural Designer | Austin, TX | March 2015 - February 2017

- Lead designer and Project Manager for various small scaled restaurants (Peli Peli Austin, Peli Peli Katy and MIA Tapas + Bar), from Conceptualization to Construction Administration.
- One of the lead representatives and designers of The Refuge, a 35,000 SF private therapeutic retreat for female survivors of Domestic Minor Sex Trafficking.
- Conceptualized and developed design renderings in-house using Revit, Rhino and V-Ray for Rhino.
- Directed internal coordination by organizing meetings, presentations and ensuring daily correspondence with clients, consultants, sub-consultants, contractors, fabricators and vendors.
- Ensured technical design analysis for life and safety code requirements, energy code compliance, and coordinated directly with technical consultants such as MEP and structural engineers.
- Major Projects:
  - Peli Peli Austin | Austin, TX | Restaurant | 5,600 SF
  - Peli Peli Katy| Katy, TX | Restaurant | 4,000 SF
  - MIA Italian Tapas + Bar | Austin, TX | Restaurant | 2,900 SF
  - The Refuge | Bastrop, TX | Non-Profit | 35,000 SF SM

BJARKE INGELS GRUOP

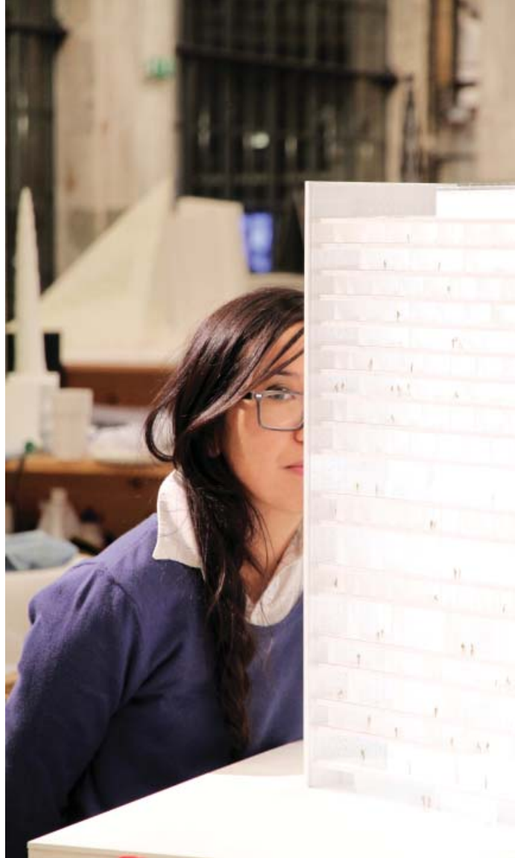
Design Assistant | Copenhagen, Denmark | July 2013 - December 2013

- Worked on various large-scale competitions in France, Denmark, Switzerland and the Middle East--producing project visualization in drawings, diagrams, renderings and animations as well as fabricating models.
- Major Projects:
  - Watchflower | Aarhus, DK | Municipality of Aarhus | Civic | 250 SM
  - Qatar Media Headquarters | Middle East | Confidential | Commercial HQ |650,000 SM
  - Hualien Residences | Hualien, TW | Taiwan Land Development Corporation| Residential |120,000 SM
  - Europa City | Paris, France | Auchan Group | Mixed-Use | 830,000 SM

UNIVERSITY OF TEXAS SCHOOL OF ARCHITECTURE

Construction IV Graduate Teaching Assistant | Austin, TX | January 2012 - May 2014

- Supported undergraduate architectural students by tutoring and holding weekly review sessions in topics related to elementary structural design.



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STRUCTURAL ENGINEERING EXPERIENCE

L.A. FUESS PARTNERS, INC.

Engineer-in-Training | Dallas, TX | January 2008 - February 2009

- Performed design calculations for steel, composite steel, concrete, and post-tensioned concrete members using Finite Element Analysis programs such as SAP, RISA, and RAM or manually using Excel spreadsheets.
- Coordinated technical analysis with Architect, Owner and other technical consultants such as MEP, Civil, Fire, Code Consultants, Vertical Transportation and Parking.
- Produced Construction Drawings, reviewed shop drawing submittals and performed construction site inspections for Quality Control/Quality Assurance during Construction Administration.
- Early implementation of BIM and coordinated comprehensive BIM models with consultants.
- Major Projects:
  - Private Medical Office Building | Dallas, TX | Commercial | 74,000 SF
  - Legacy West | Plano, TX | Mixed-Use | 700,000 SF

PICKETT, KELM AND ASSOCIATES, INC.

Structural Intern | Austin, TX | September 2007 - January 2008

- Performed structural analysis calculations for small-scale structures such as bridges, retaining walls and parking garages. Drawing production, drafting and design details based in AutoCAD.

TEXAS DEPARTMENT OF TRANSPORTATION

Summer Engineering Technician | Austin, TX | May 2007 - August 2007

- Worked in the Field Engineering Branch of the Construction Division specializing in Contract Administration and Quantity Takeoff Cost Estimation. Traveled to other districts to perform reviews and site inspections.

PBS&J

Technical Intern | Austin, TX | June 2005 - June 2006

- Project management consulting to help streamline the construction of the Tollway Customer Service Center in Austin, Texas. Supported Construction Administration procedures such as responding to Request for Information, reviewing submittals, evaluating value engineering solutions, attending site visits and direct on-site coordination with contractors.

EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN

Master of Architecture | 2011 - 2014

- Tau Sigma Delta | National Honor Society in Architecture and Allied Arts, Mu chapter | January 2014
- Joy & Morin Scott/Sally & John Byram Graduate Fellowship | July 2013
- Oglesby Traveling Fellowship Nomination | April 2014
- Design Excellence Nomination for CHROMASCAPE: Advanced Studio | May 2013

UNIVERSITY OF TEXAS AT AUSTIN

Bachelor of Science in Architectural Engineering | 2004 - 2007

- Co-Founder of BEA: Business, Engineering and Architecture Student Group | January 2007
- Member of the Women in Engineering Program | January 2005

SKILLS

3D MODELING & DRAWING

- Revit
- Rhinoceros
- AutoCAD
- Microstation
- Sketch-Up

VISULIZATION

- Enscape
- Lumion
- V-Ray for Rhino
- 3D Studio Max
- Adobe Creative Suite
- Adobe Premiere
- After Effects

TECHNICAL

- DIVA for Rhino
- Grasshopper
- Processing
- RAM Steel
- RAM Concept
- RISA (Rapid Interactive Structural Analysis)
- SAP (Structural Analysis Program)
- SP Column (Structure Point)
- Microsoft Office Suite

FABRICATION

- 3D Printing
- Laser Cutting
- Hand Drafting
- Watercolour

VOLUNTEER

- Hands on Housing
- Habitat for Humanity
- Women Design Build
- SolDesignLab
- Dove Tile Project

INTERESTS

- Powerlifting
- Tennis
- Cooking
- Dogs

For Mom
Mahal na Mahal Kita