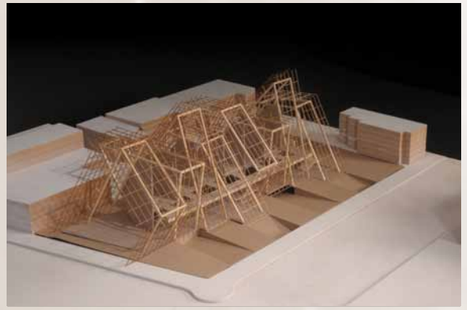
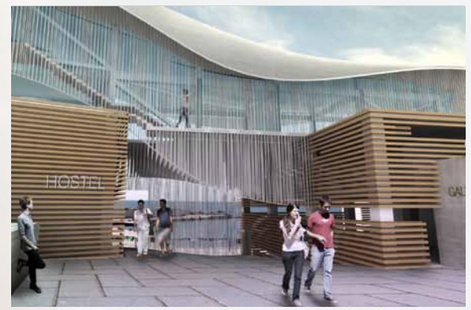




resume

education

California Polytechnic State University — 2010 - 2015
San Luis Obispo, CA
Degree - B. ARCH (5 year)
One year studying in Florence, Italy

Bellevue Christian High School — 2006 - 2010
Clyde Hill, WA
Diploma

employment

Meathead Movers — 2012 - 2013
Super Meathead (Team Captain)
Assisted clients with premium service
Promoted after 1 month

Ross Dress for Less — 2011
Store Protection Specialist
Mitigated Theft and Fraud
Promoted after 2 weeks

skills

Digital Competence — 2010 - Present
Rhinoceros 3D
Adobe Mastersuites
Grasshopper
AutoCAD
Vasari + Climate Consultant
Microsoft Office
Digital Fabrication (CNC / Laser Cutter)
Rendering (Maxwell, V-ray, Toucan, Rhino)
Graphic Design

Analog Competence — 2010 - Present
Hand-drafting
Model-building
Sketching

Other Attributes
Good verbal and digital communication skills
Accepted into Cal Poly Honors Program
Ability to work in a team well

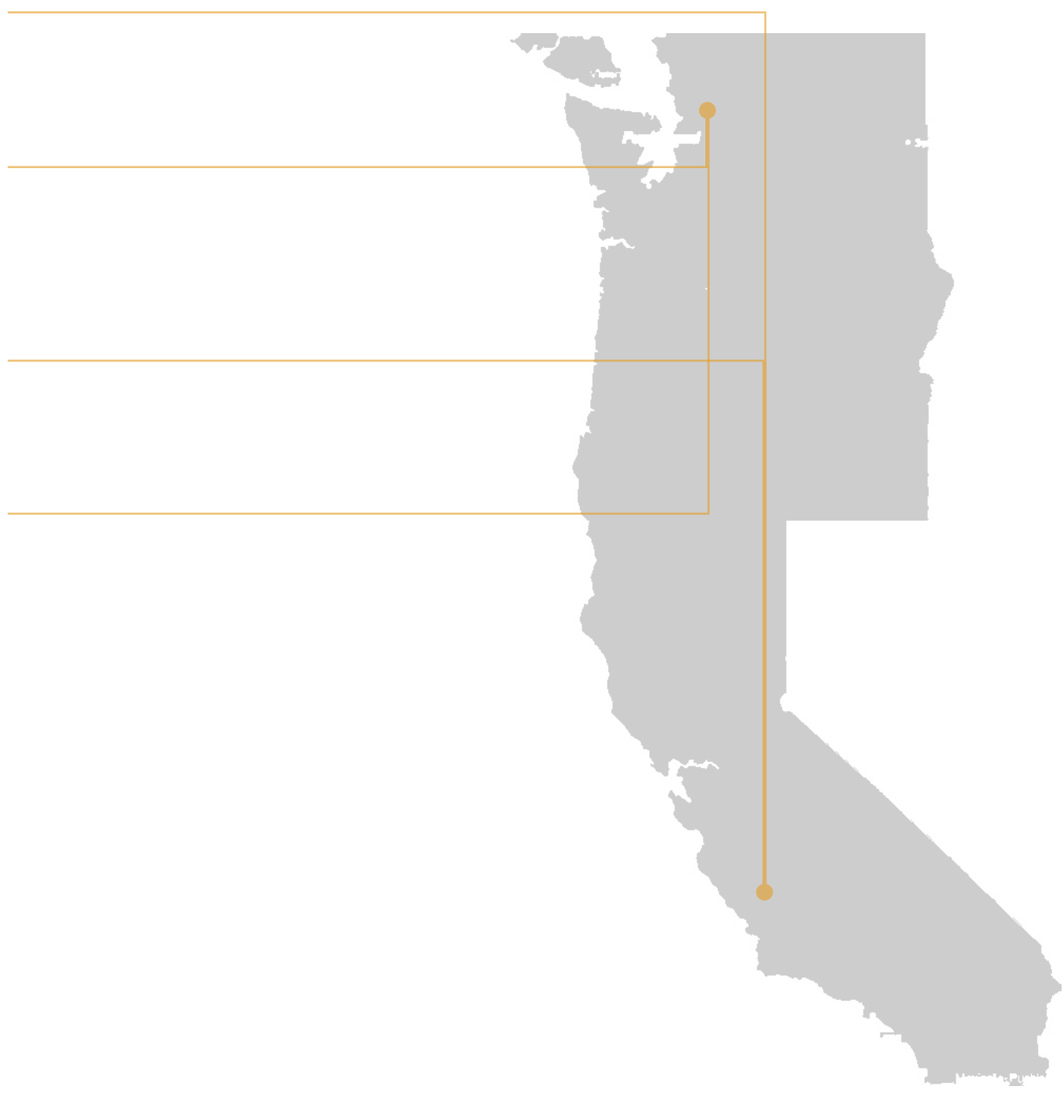


table of contents

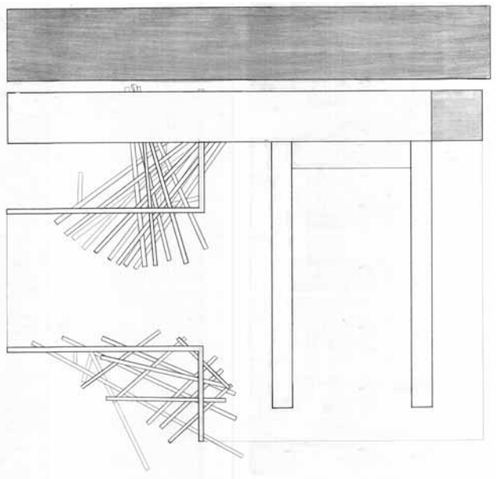
hand crafted	2010-2013
split hybridity	fall 2011
telescope	winter 2012
shifted nodal information	fall 2012
notion of motion	summer 2013
digital fabrication	spring 2013

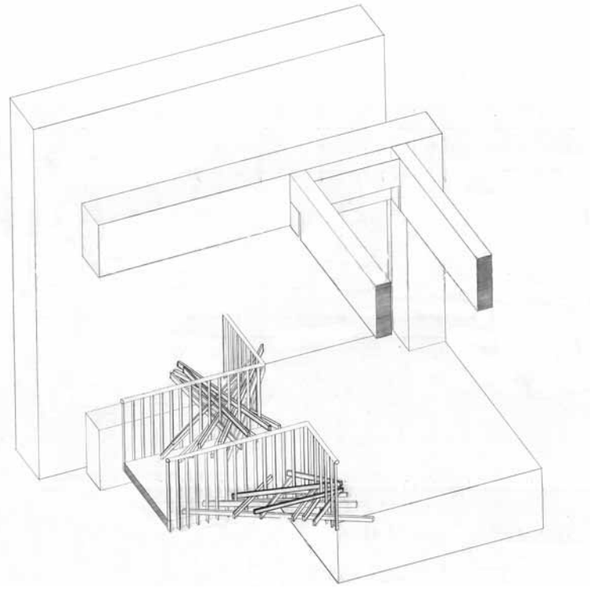
biography

Having lived all over North American has given me a unique perspective upon architecture. Studying in Italy and Switzerland has provided me with many opportunities to both create and view a variety of design as well. Being able to witness projects both from my home country, but also throughout Europe gives me a well-learned outlook on design. Attending Cal Poly has taught me one thing above all: learn by doing. This applies perfectly to architecture. I cannot learn if something works or not, unless I try it. Our school motto also promotes a large amount of 1:1 scale work, something that is becoming more rare as education continues. We are required to build physical models, both at small scale, but sometimes at the human scale, the way in which design is actually experienced. Architects must also work in the shop, fabricating large scale aspects of the project, from furniture, to models, to details of the building. Utilizing both digital and analog tools fosters a better procedure. Using digital fabrication is immensely helpful and creates a better understanding of wholistic design. Using parametric design, I can better respond and adapt to environmental conditions, cost saving measures, and create more interest at the user interface level. Pairing these technology skills with physical representation is the most effective way to communicate ideas. Designers must know how to learn from the past, invent, adapt, and create efficient, visually appealing projects where the user enjoys the space created.

Born:	Kirkland, WA
Age:	21
Degree:	Bachelor of Architecture (4th Year)
University:	California Polytechnic State University - San Luis Obispo, CA
Lived:	Washington, Rhode Island, Connecticut, Virginia, Toronto, Minnesota, California, Italy
Hobbies:	Hiking, camping, running, football, basketball, mountain-biking, water color
Instruments:	Bass guitar, french horn, keyboard

hand crafted





para**SITE**

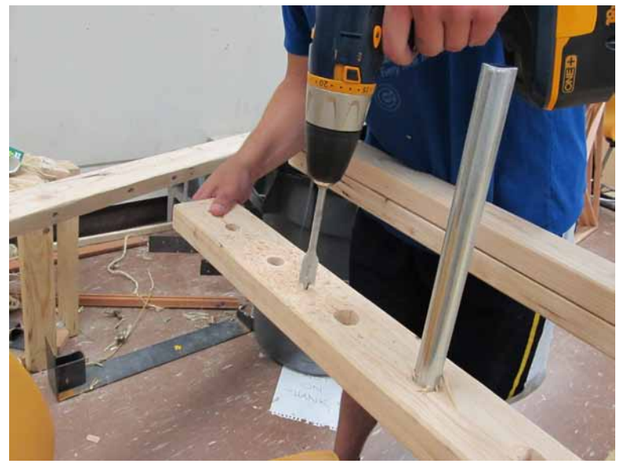
A large scale collaborative installation on the architecture building on campus. The matrix of wood provokes the turn as well as extends the visual curiousity beyond the constraints of the railing. This project responds to the foot traffic that enters from multiple different directions and filters the minimal light entering the site to illuminate the wood and metal connections. Everything was fabricated inside of the shop, including the members and all of the handmade and threaded connections. The warm colors of the wood and fabric soften the harshness of the brutalist style the building was designed in.





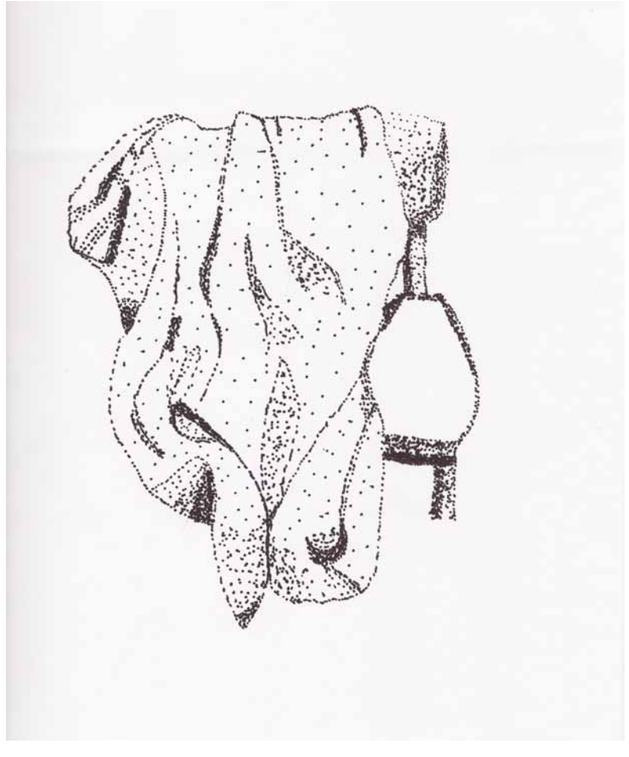

design village

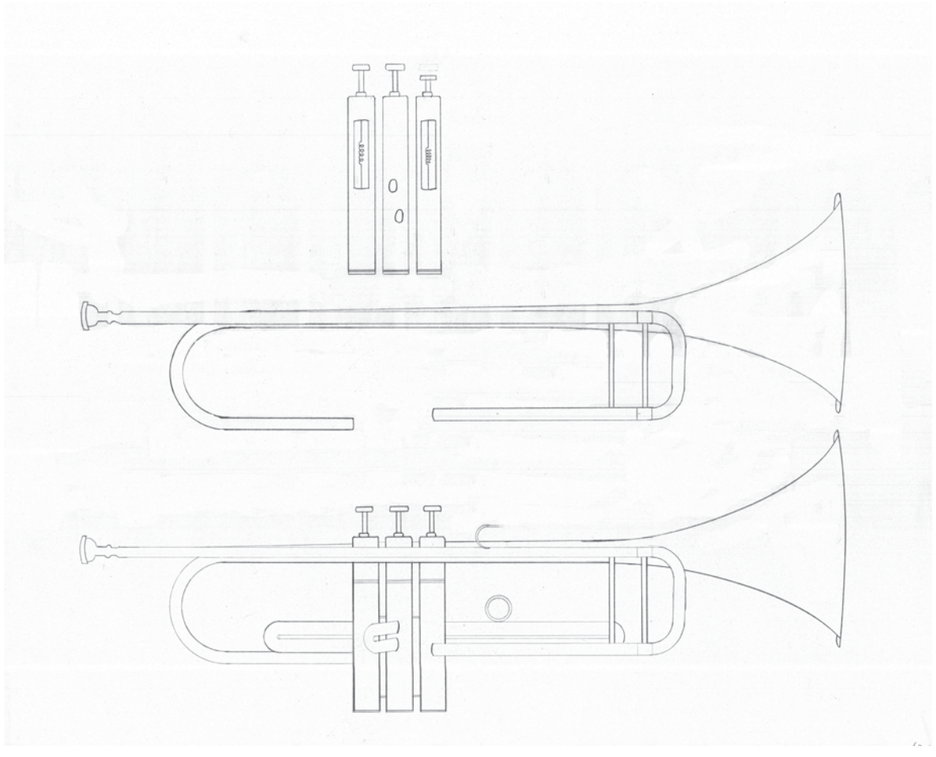
Inhabitable and transportable for up to one mile. The entire structure had to be fabricated by the group, and then moved to Poly Canyon, which is approximately one mile from the fabrication site: no vehicles allowed for assistance. The dome shape was created to minimize the affect of wind in the valley, which is substantial. The legs were designed to be allowed to adjust to any slope of the hill, from flat ground, up to a 45 degree angle, allowing for an infinte number of site. To minimize the weight, material had to be chosen carefully. Metal conduit and self-laminated cardboard were used .

Group members: Cameron Darr, Alexa Dack, Brenden Day, Daniel Morosan, Nathaniel Goei, Jessica Kuhlman, Meganne Derossier

spring 2011





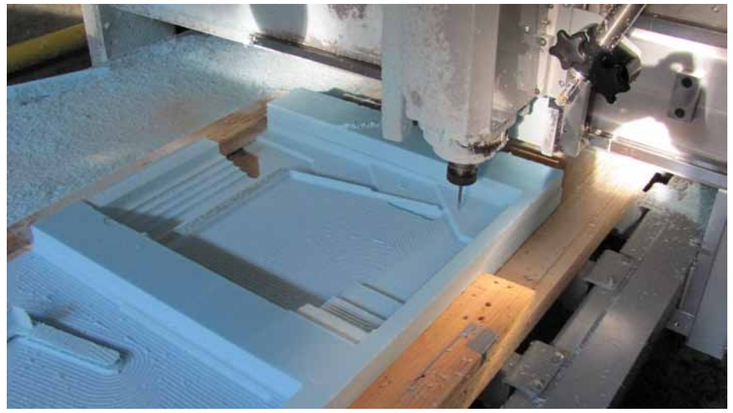
2010 - 2012

soldering and drawing

split hybridity

split **hybridity**

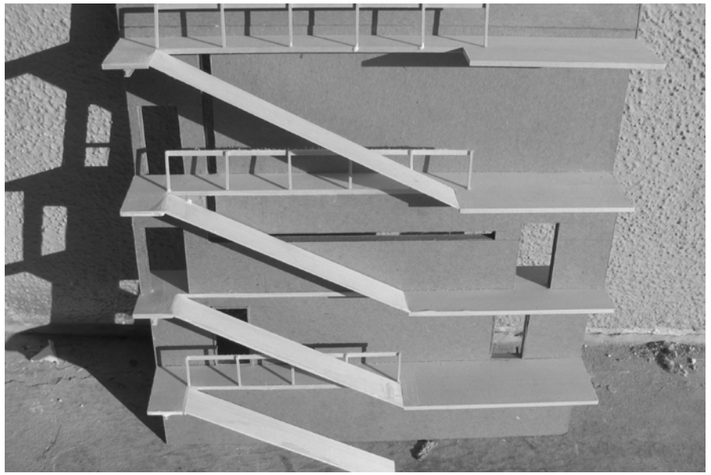
This project was a first experience working with accurate digital modeling and the CNC router. A file for the landscape was created, then inverted and routed in foam to make a mold for the plaster cast, and then the site was cast in plaster. The site was inspired from extracted parti lines on a Richard Diebenkorn painting. The project is a multi-family home located in Santa Maria, California.

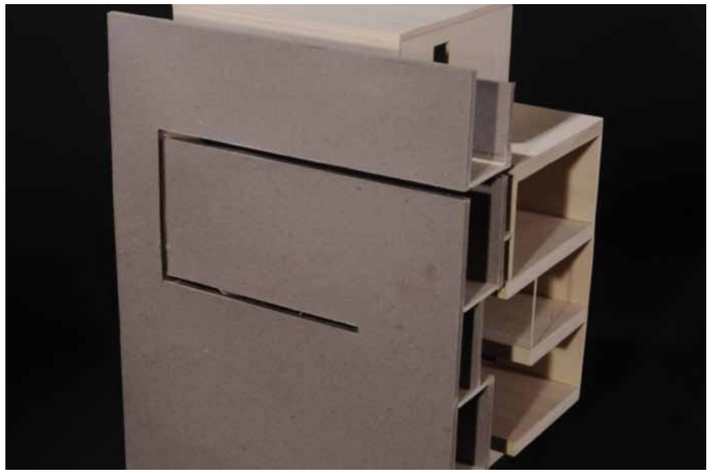


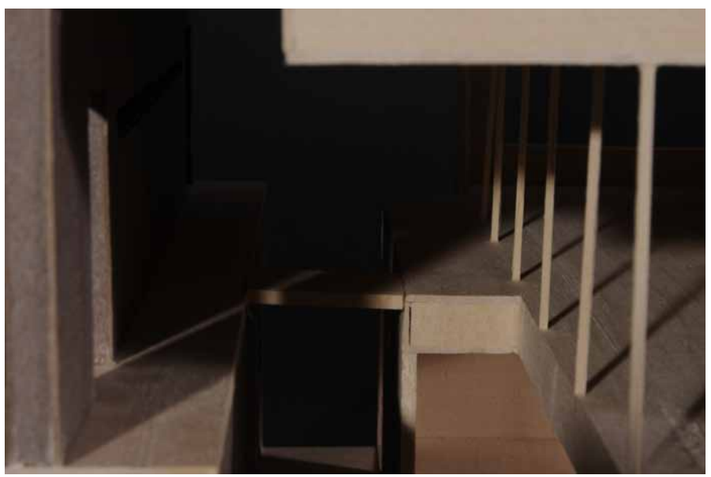
telescope

telescope

Located in the mission district in San Francisco, CA, this project was an institution for molecular gastonomy. The form of the building consists of simple geometries and shift and scale to create specific views both into and out of the site, creating a telescopic feel. The circulation tower exists as almost a separate entity with a subtle cut through the facade to allow light into the space. Ever floor contains an outdoor courtyard, some located in the inner atrium space, and some located on the exterior.





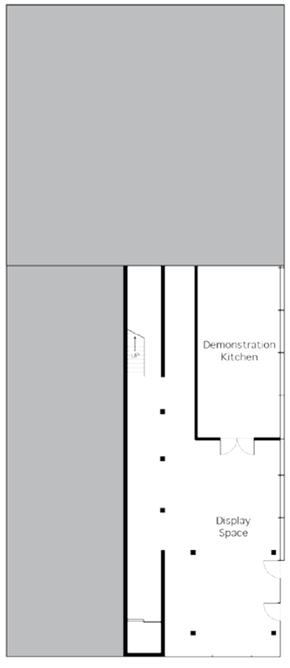


winter 2012

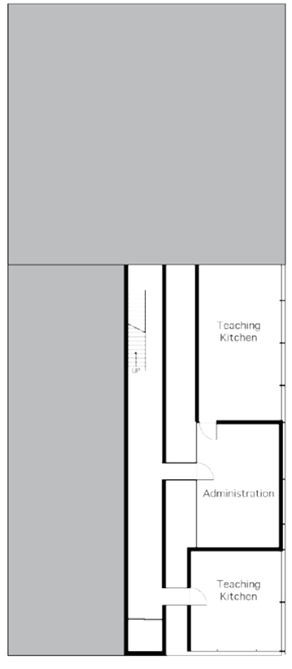
telescope

1/16" : 1'0"

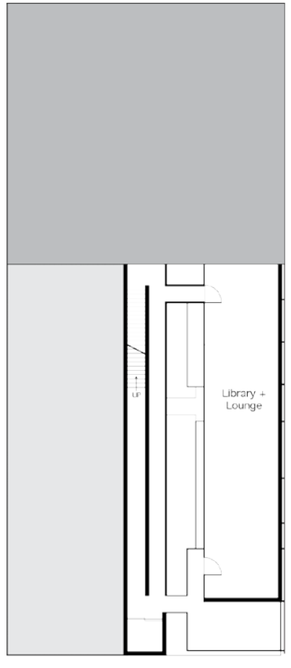
IMG at 16th St and Mission St



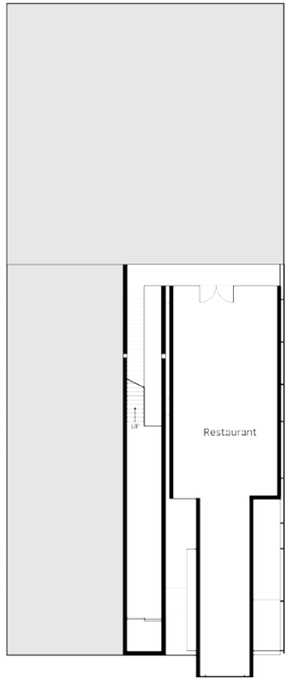
First Floor



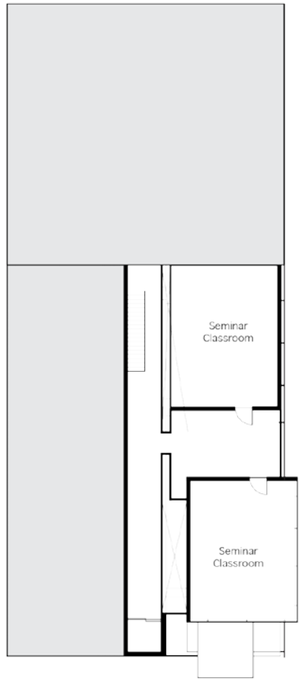
Second Floor



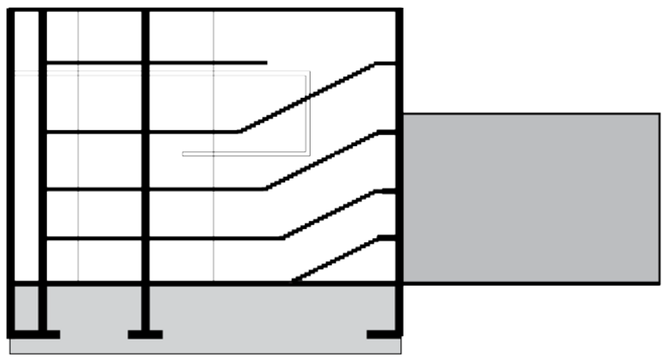
Third Floor



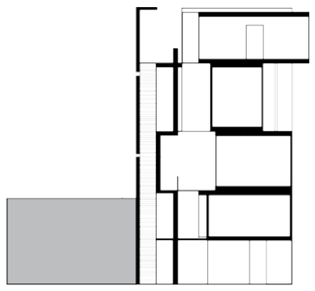
Fourth Floor



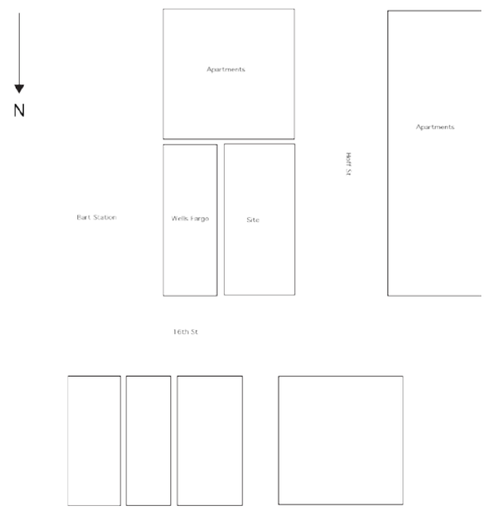
Fifth Floor



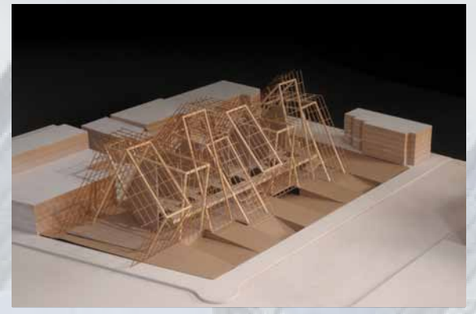
East Section (through circulation)



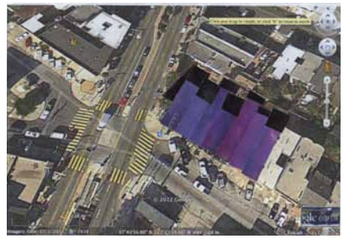
South Section



winter 2012

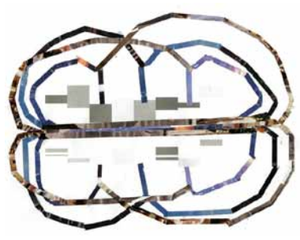


shifting nodal information





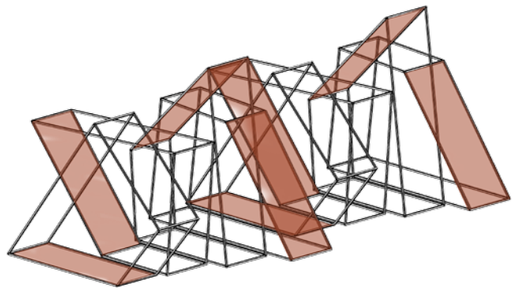


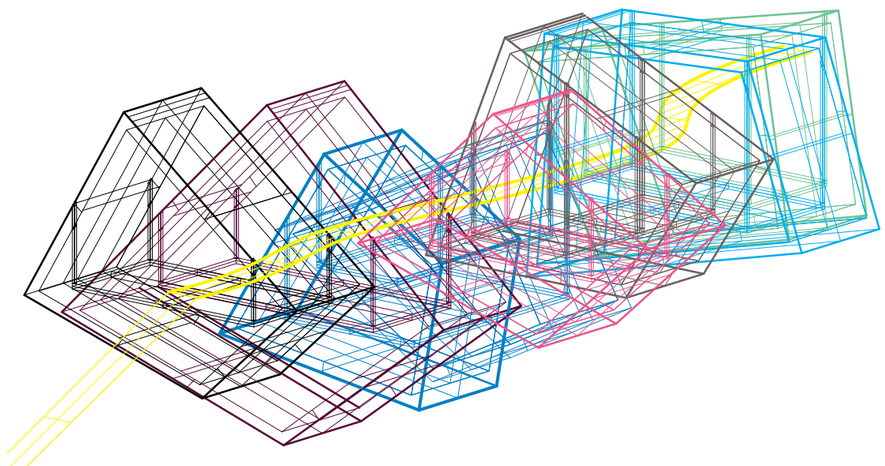
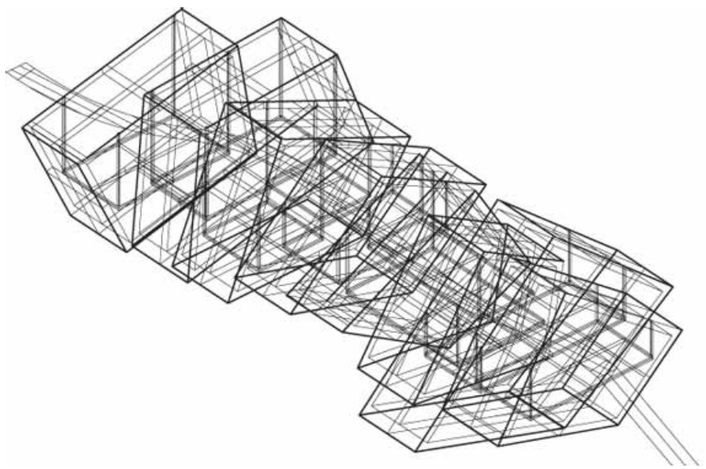
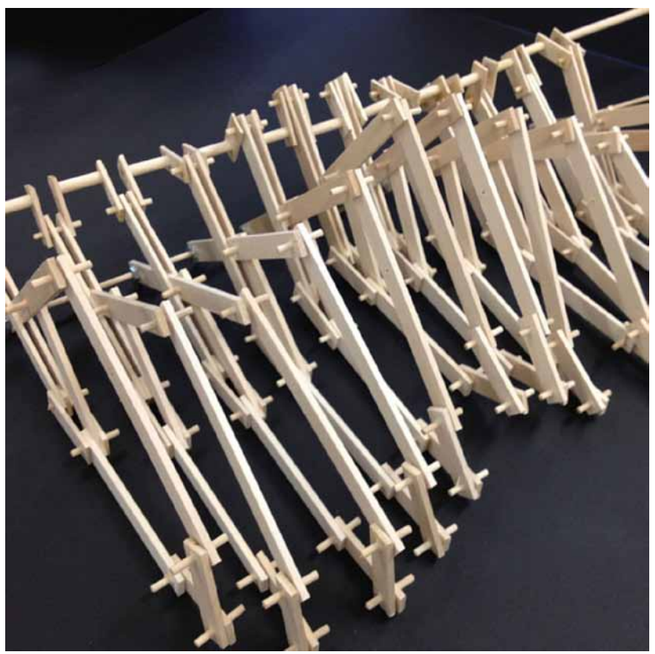


the process behind shifting nodes

Initially in the form of a group project, a kinetic machine (bottom right) was created through the concept breakdown of the Orbital Tower in London. The machine revolves around an axis that is human operated and each finger moves similar to that of a key on a piano. The shape and movements of these fingers translated into my project for the quarter. Each different volume of space is a rotated finger from the kinetic model, creating distinct modules.

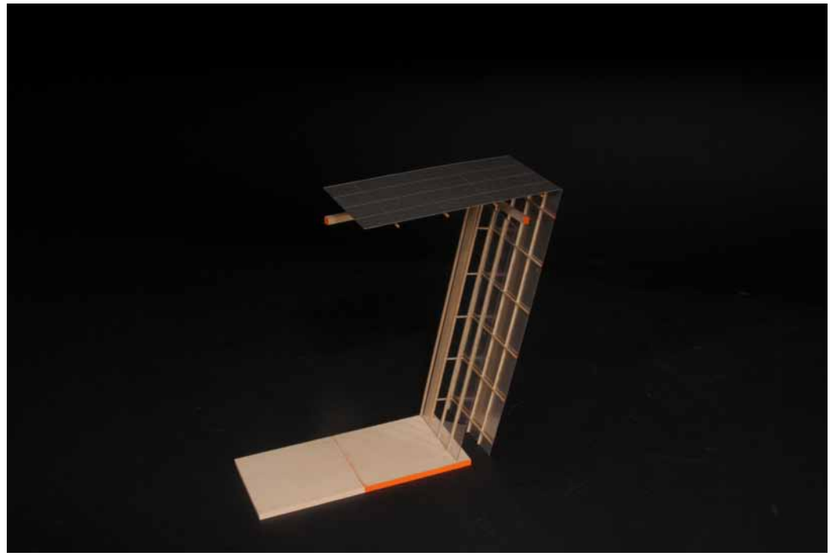
Above is a series of collages that were done to develop concepts, form, and relationship with the site. Developmental collages of the building were placed over pictures of the site to view how the formal aspects and materiality would respond to the given location. Collages were also utilized to distinguish how circulation and program could be laid out to work efficiently and logically. The wireframe models provide a rough formal representation as well as indicate circulation through confusion.

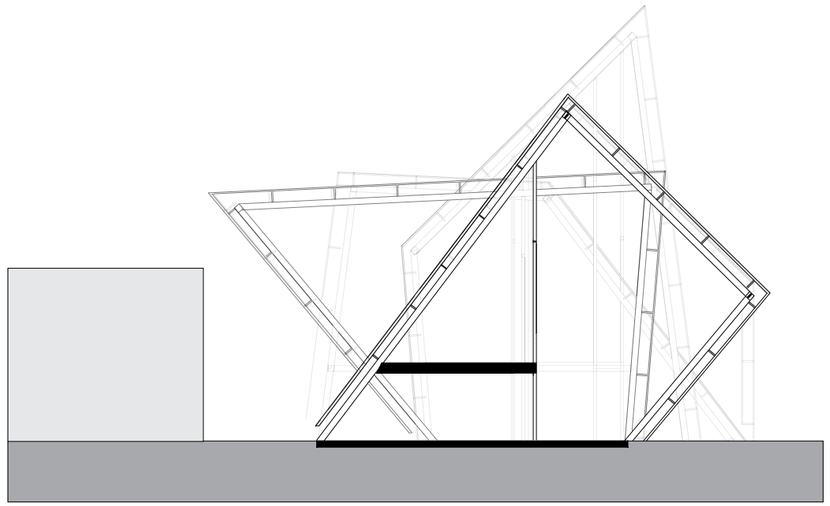


fall 2012

shifting nodal information



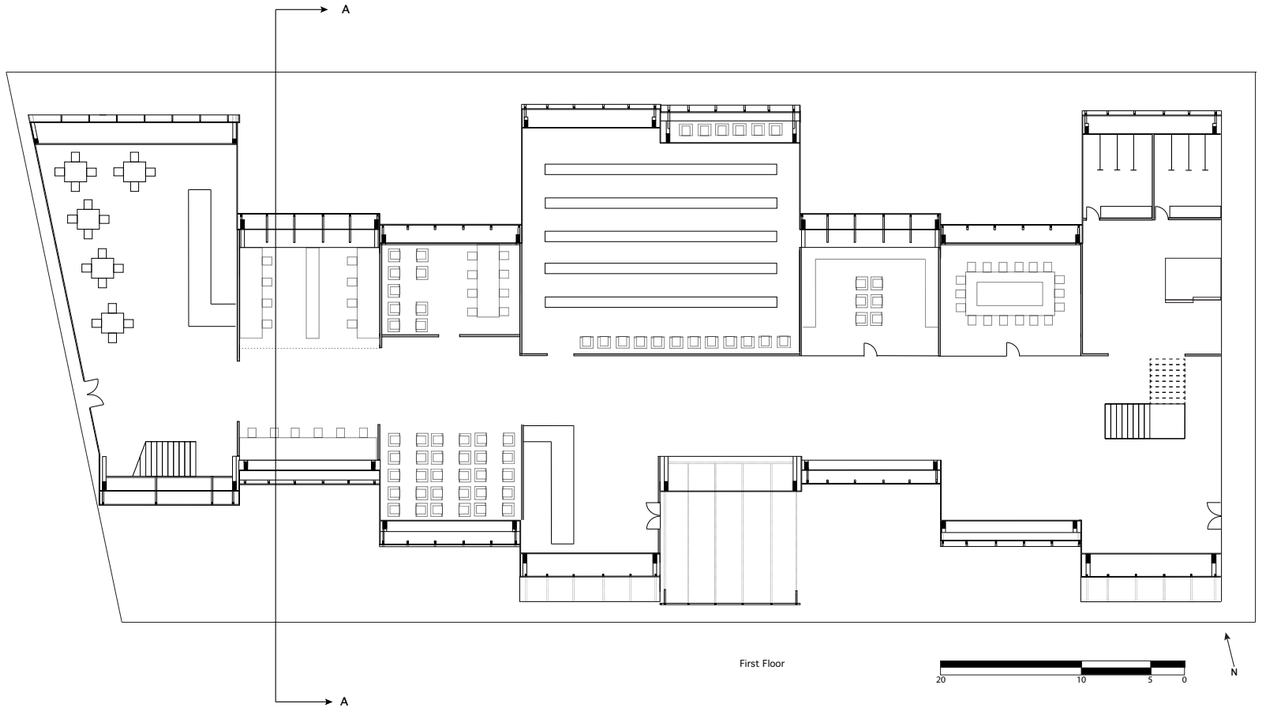


Section A-A

20 10 5 0

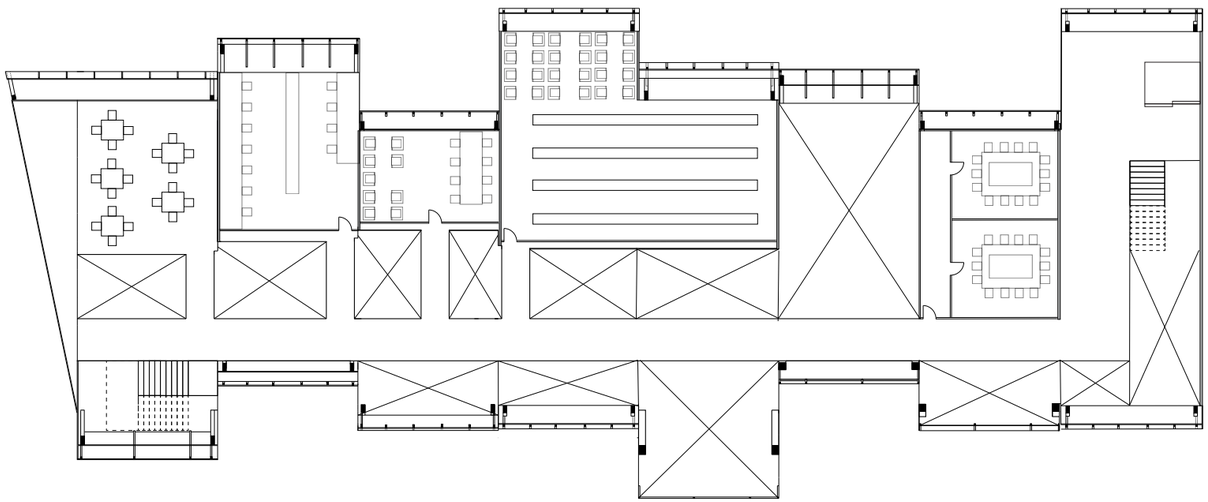
Each separate volume is a different way to access information. The methods for learning are infinite, from printed works, to internet articles, to verbal communication download from person to person. This library fosters a center for learning, but also a center where the community can gather and interact in a safe environment with one another. While the design is not a typical building for this district in San Francisco, it is a landmark and piece of art for the community.

fall 2012



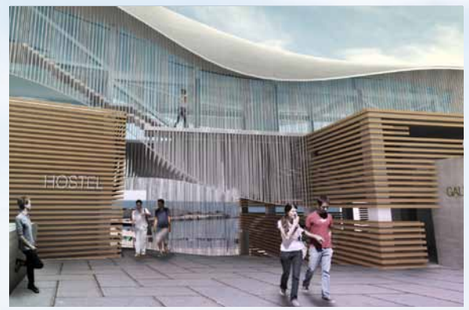
First Floor

20 10 5 0

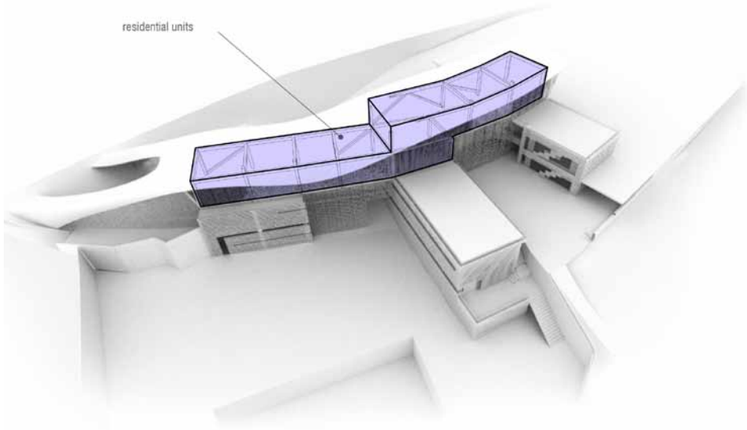


Second Floor

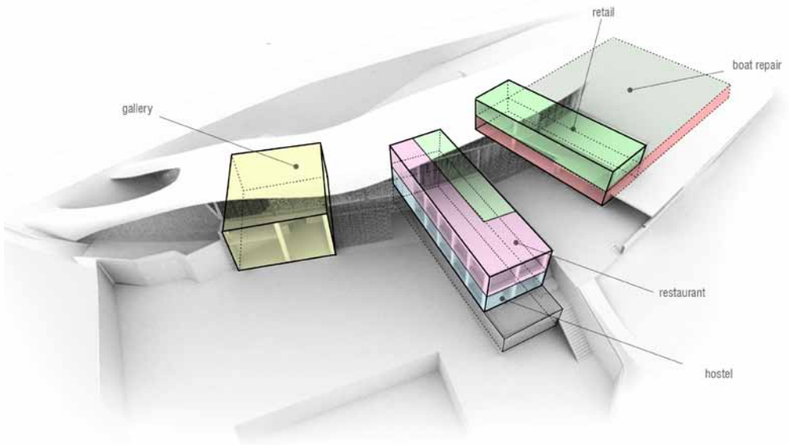
20 10 5 0



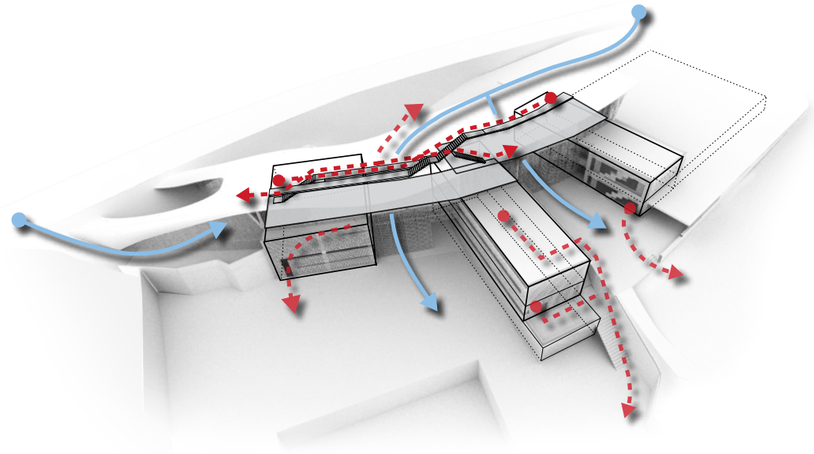
notion of motion



residence tower diagram



program diagram

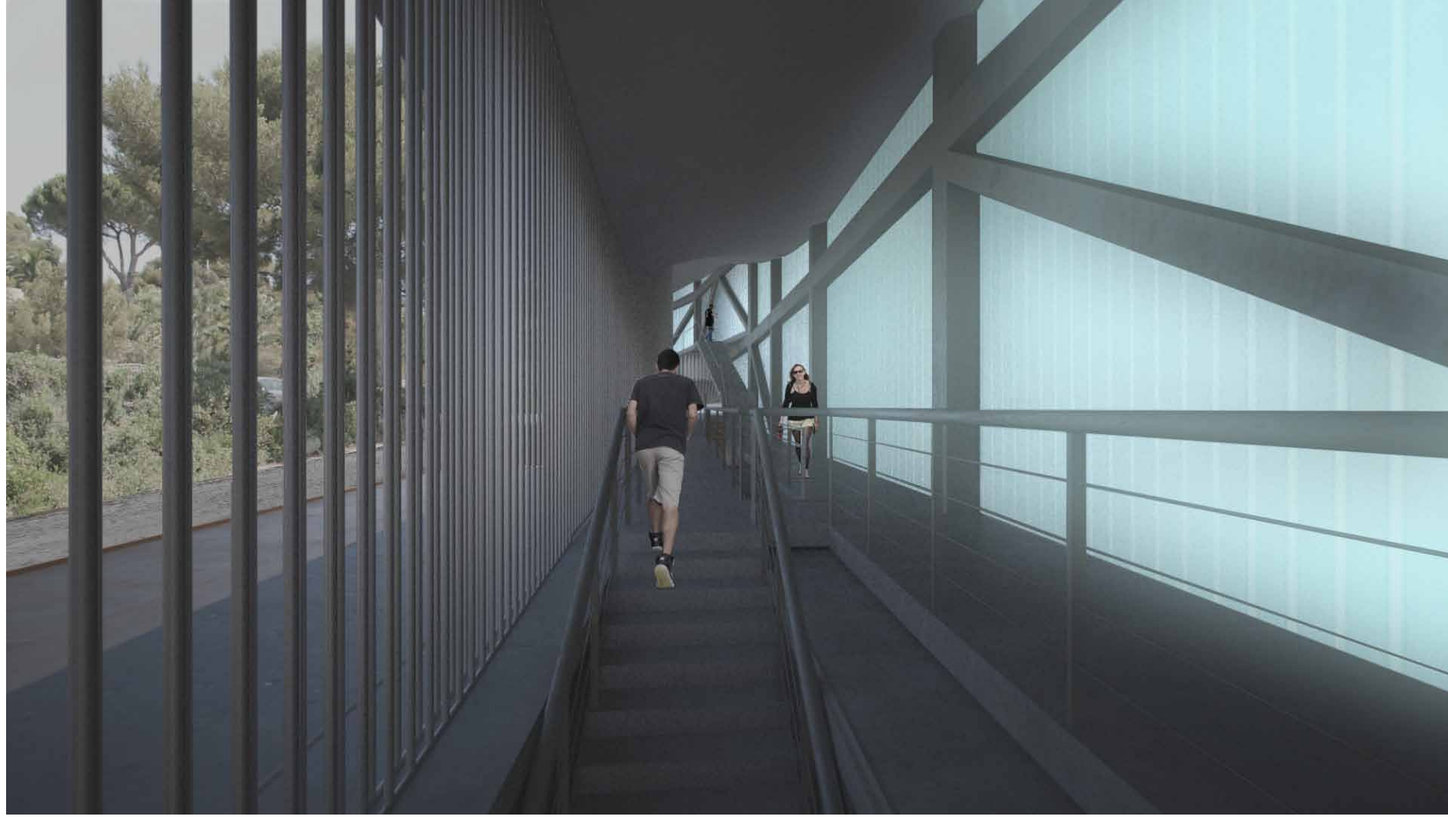


circulation and egress diagram

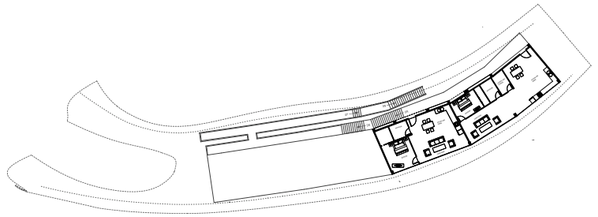
Group: Cameron Darr, Alexa Dack, Edvin Vargas, Shawna Cheng

notion of **motion**

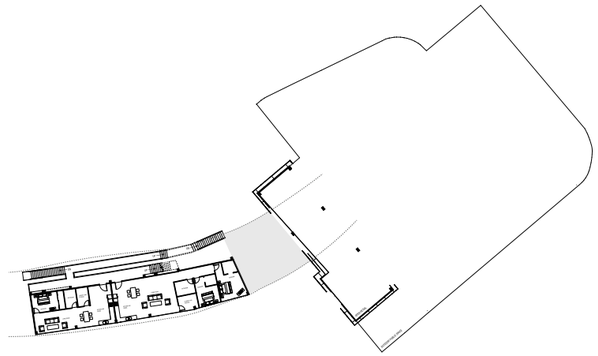
Located in the South of France directly attached to the Mediteranean Sea, this mixed-use project delivers an enjoyable space for a variety of inhabitants. The complex holds a residential element, a hostel for traveling students, a restaurant, gallery space, and an office for nautical rentals and activities. The renovation drapes over three existing buildings that have been completely changed, except for structural elements. The new complex creates an inviting area for guests and residents to inhabit the area near the water, and liven up the dreary lot.



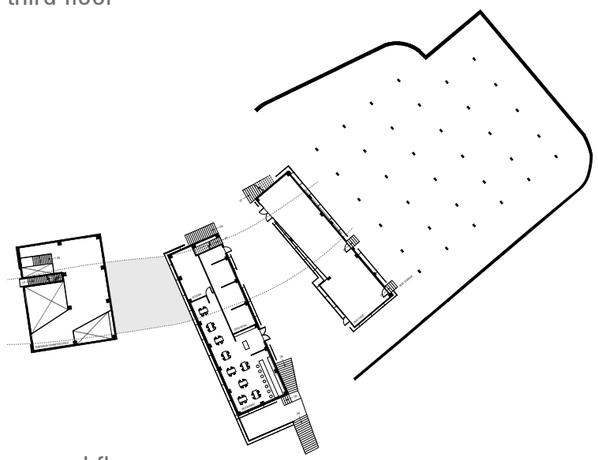
summer 2013



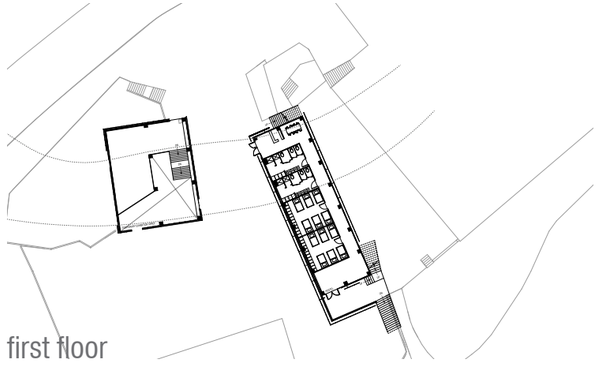
fourth floor



third floor



second floor



first floor

thin shell concrete canopy

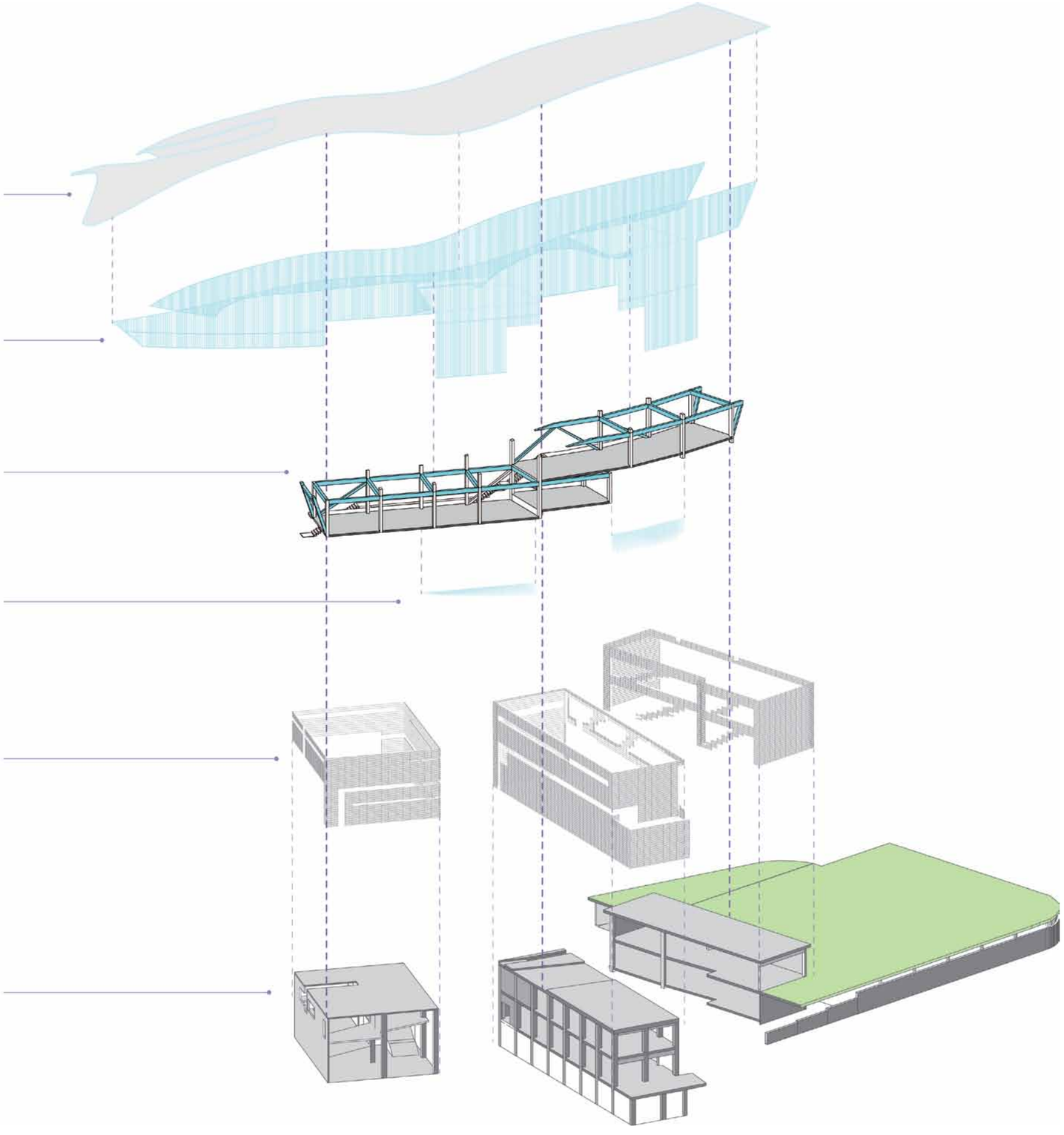
stainless steel pipe cladding

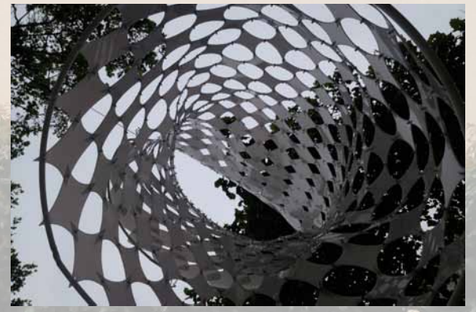
residential tower structure

vertical pipe outdoor ceiling

horizontal timber cladding

existing building structure

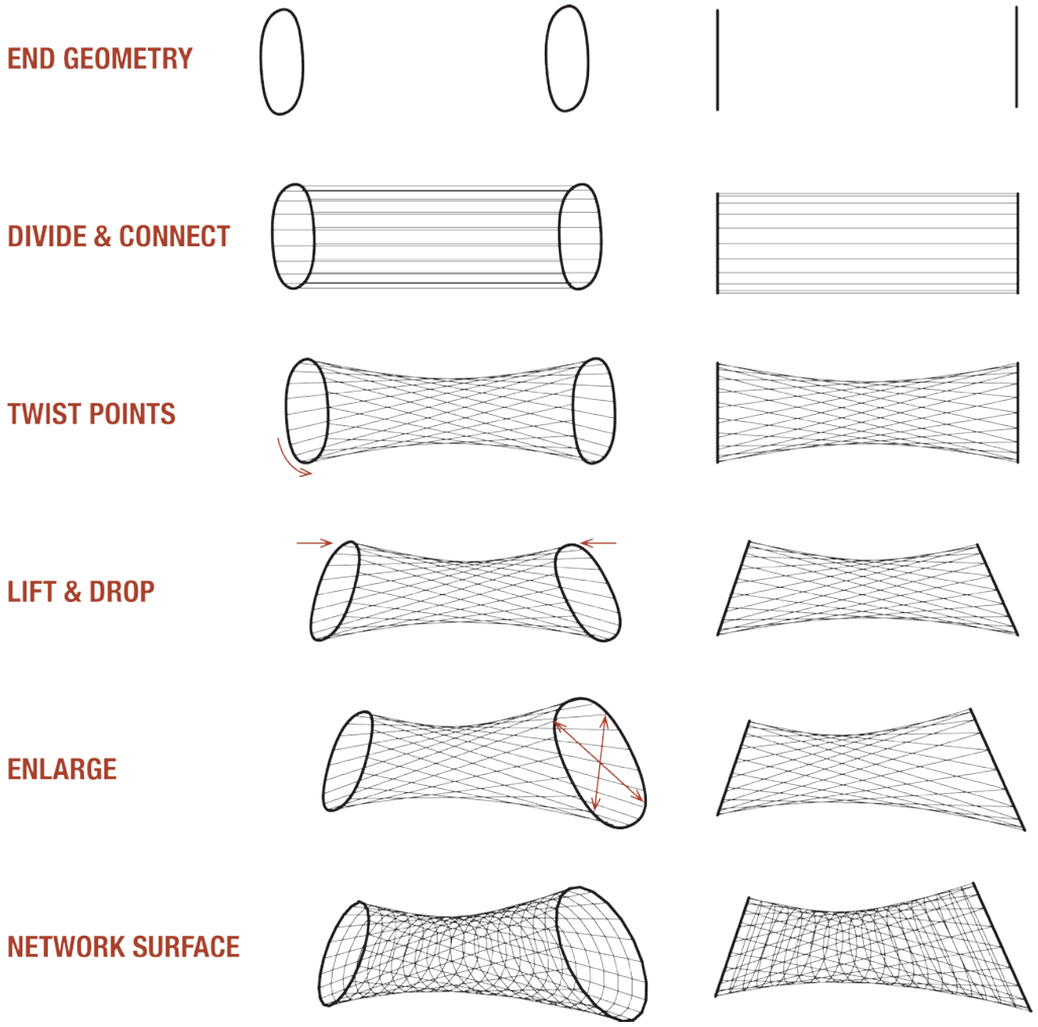




parametric design +
digital fabrication

modulated **hyperboloid**

Parametric design is a tool which few designers use and an asset which I view as immensely helpful. This project was for a digital fabrication class. A simple square shape was the basis for each module that was manipulated. The overall form came from initialy a horizontal tube-like structure that fostered user inhabitance. After conceptual evolution, this shape turned into a verticallly oriented hyperbaloid. Using a parametric modeling plug-in (grasshopper), each module was formed to the shape, with module size depending upon its distance from the focal view point inside the structure. This was a collaborative project between Cameron Darr, Alex Keifer, Travis Cook, and Manuel Chairez.



modulated **hyperboloid**