

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

Exhibit of Undergraduate Work

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph



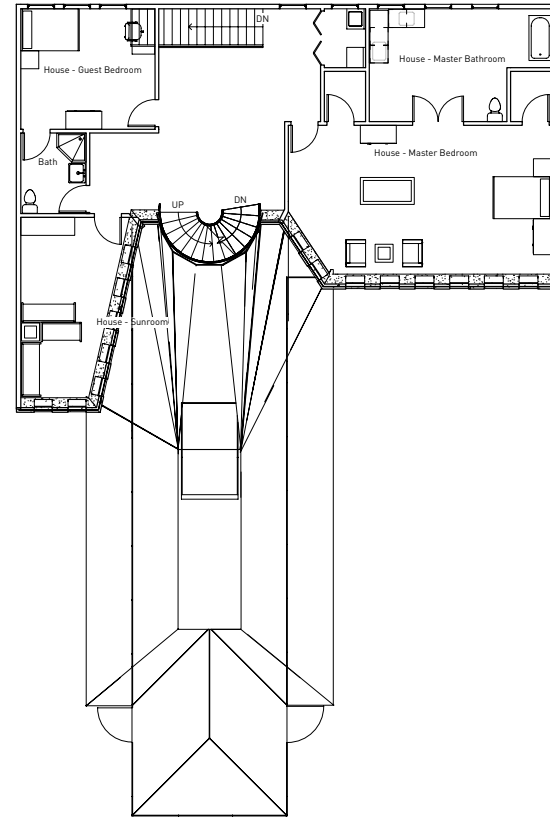
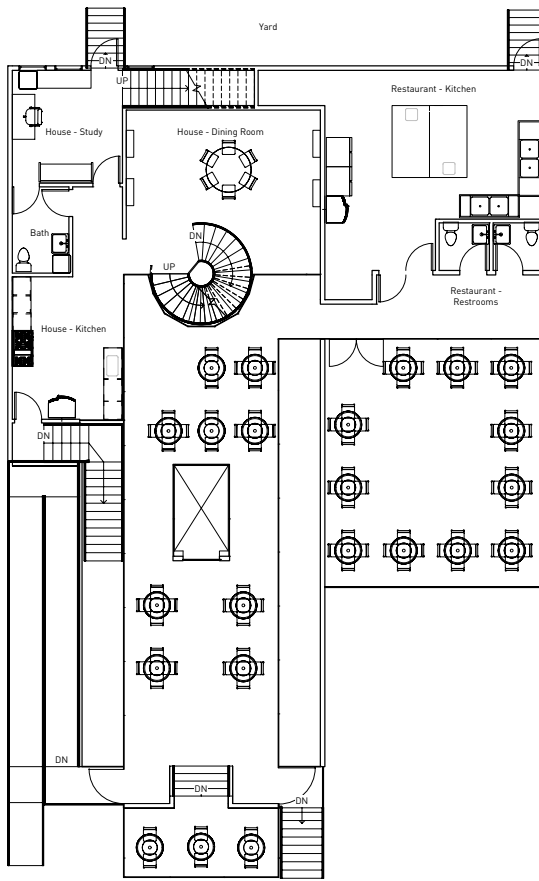
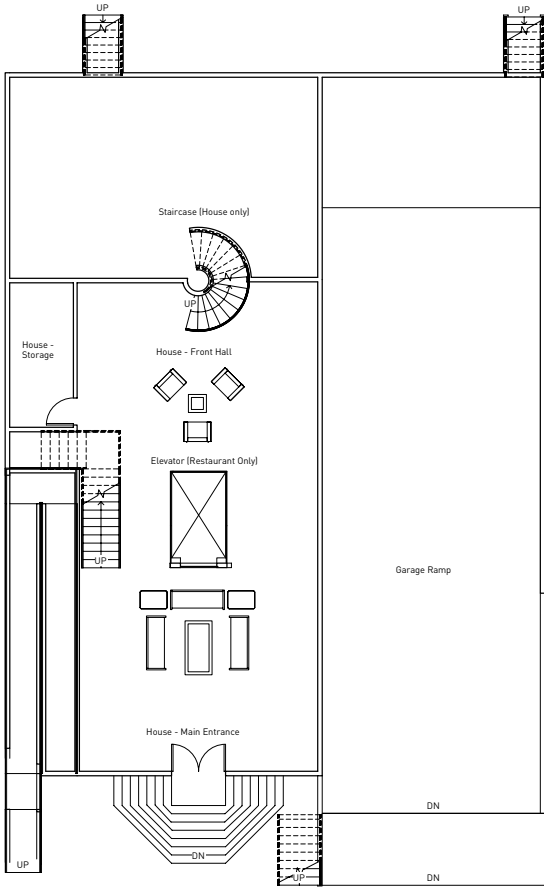
externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

Reinterpreting the Glass House

task	Design a house for a working couple with no children for a vacant site in Palo Alto CA.
method	I integrated a public restaurant into the private home to study the interactions and mutual subversions of convention that would occur between the domestic and commercial urban spaces. I studied glass house precedents and externalized aspects of domestic life that were once completely private. Mirrors and glass walls permitted constrained visibility between the house and restaurant.
media	Autodesk Revit, site photographs, Photoshop
context	Autumn 2005 - Stanford studio -The Architecture of the House - John Barton, Barton Architect Summer 2007 - personal work [rendering only]

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph

650 996 ****

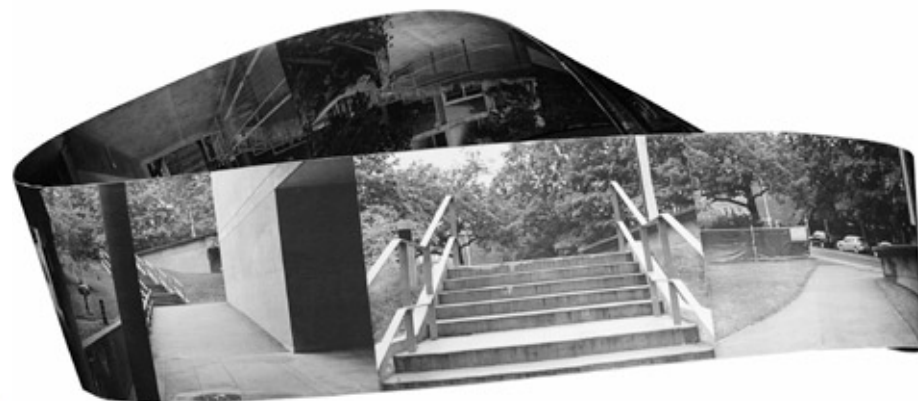


externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

Reinterpreting the Glass House (continued)

task	Design a house for a working couple with no children for a vacant site in Palo Alto CA.
method	I also studied the intertwining of the private and public circulation patterns to eliminate conflict and confusion while maximizing visual (but not verbal and physical) interaction. I delineated between restaurant service and served spaces (orange), residential spaces that that I externalized (brown), and residential spaces that remained internalized (white).
media	Autodesk Revit, matte board, glue
context	Autumn 2005 - Stanford studio - The Architecture of the House - John Barton, Barton Architect

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph
650 996 ****



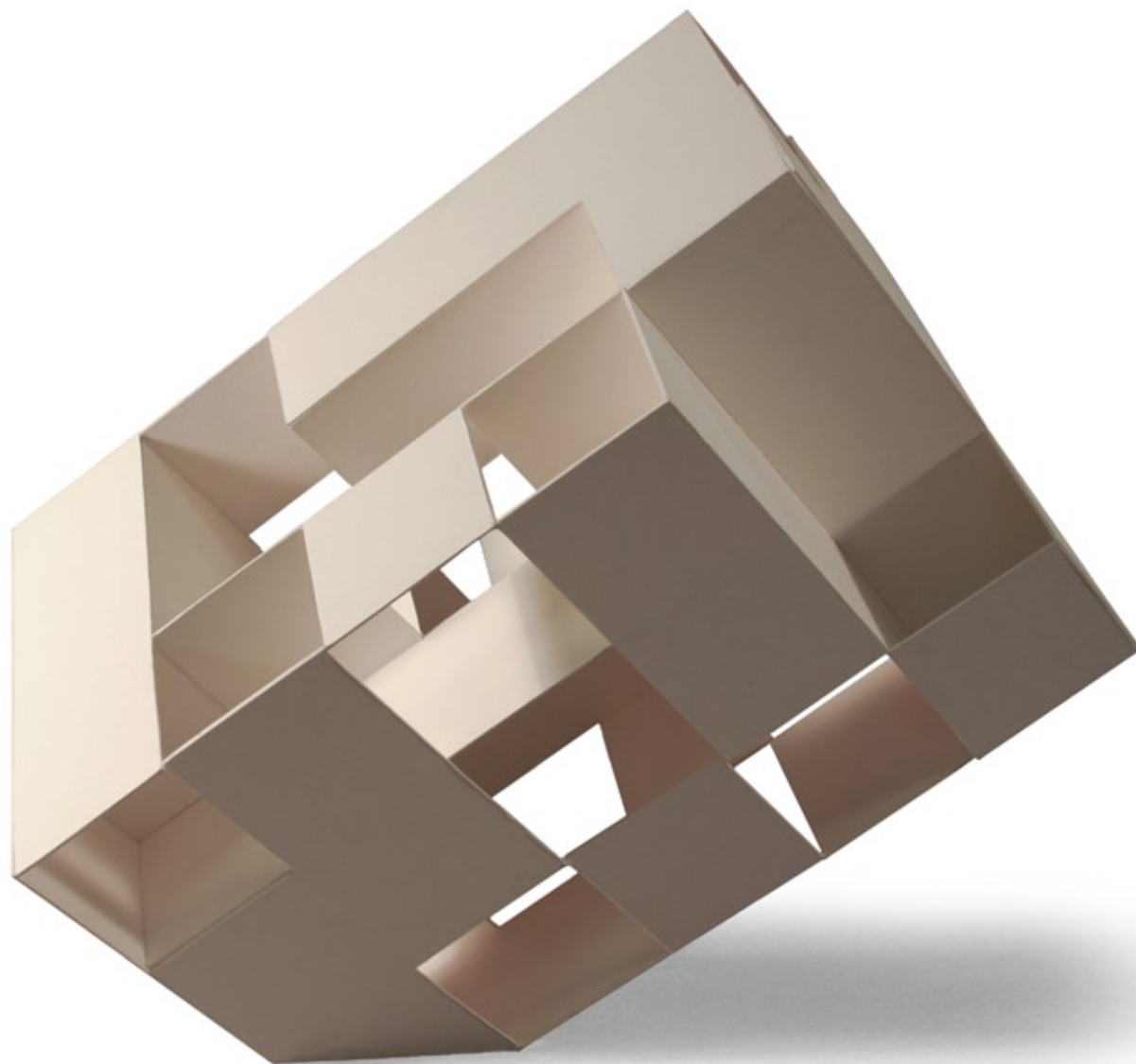
externalize
 extend
 explore
 exact
 expose
 experiment
 explode
 exemplify
 extrude
 exhibit

Intervention in Le Corbusier's Carpenter Center

task	Modify the exterior of this Harvard University academic building to create a large, a medium, and a small learning space. Be attentive and responsive to Le Corbusier's patterns and intentions.
method	I initially studied the twisted paths that a pedestrian must take through, under, and around the building, and the Möbius strip became a basic concept for my intervention. I cut, extended , and curved the forms of the existing concrete ramps to investigate new irregularities and their dialogs with the existing structure. I formed these warped walkways into minimal but sufficient enclosures.
media	chipboard, printed photographs, glue, wire, clay, existing display model, Photoshop
context	Summer 2006 - Harvard design school studio - Career Discovery - Neda Pourshakouri, GSD

design
 analyze
 cooperate
 cad
 image
 model
 draft
 draw
 sketch
 photograph

650 996 ****



externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

Abstract Spatial Study

task	Explore relationships of space through interlocking solids and voids of specified sizes. Obey a rigid 3" grid and use no more than three 45° triangles.
method	I used the allotted triangles to rotate the grid that would order my volumes, and this rotation created a new spatial system for me to explore. I arranged the solids and the voids to accentuate this fundamental alteration by developing a line of symmetry that divided the axis of rotation. I filled the leftmost solids with additional museum board to balance the cantilever.
media	museum board, glue
context	Autumn 2005 - Stanford studio - The Architecture of the House - John Barton, Barton Architect

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph



Case Study of Frank Harmon's Prairie Ridge Open Air Pavilion

task	Study the assigned existing building and present the analysis to the class.
method	My partner and I researched the architect and the specific project to focus our analysis on the most formally and structurally relevant aspects of the design. We modeled the building at 1/4" in a partially-completed state to better explore the essential structural systems.
media	basswood, chipboard, glue
context	Winter 2007 - Stanford studio - Form and Structure - Eric Haesloop and Stefan Hastrup, Turnbull Griffin Haesloop Architects

design
 analyze
 cooperate
 cad
 image
 model
 draft
 draw
 sketch
 photograph

650 996 ****

externalize
 extend
explore
 exact
 expose
 experiment
 explode
 exemplify
 extrude
 exhibit

sheet 6 of 18



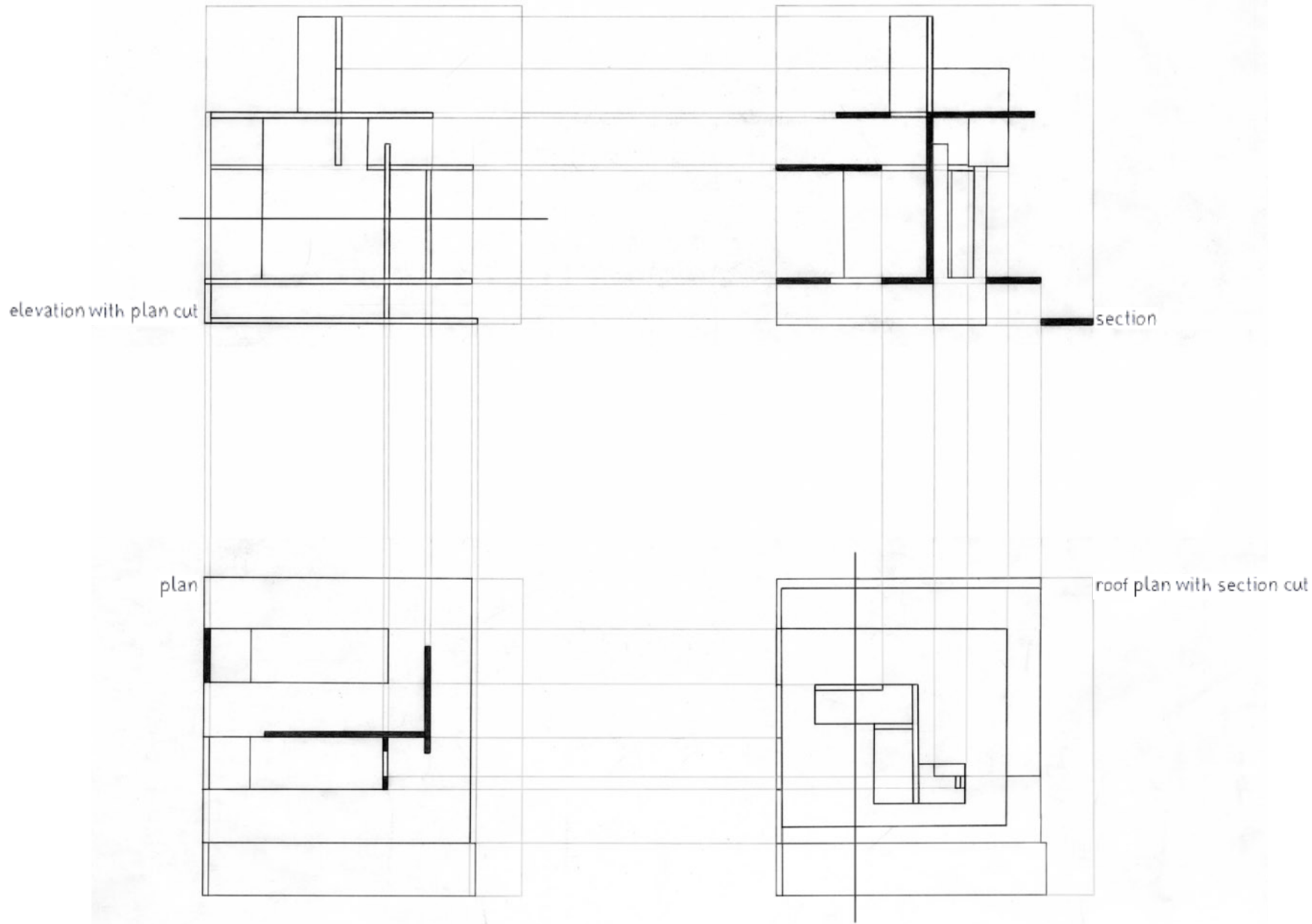
Charcoal Drawings

task	Draw artistic yet accurate compositions of nude models with limited pose durations.
method	In the left drawing I explored the specificity of curved lines and subtle self-cast shadows. In the right drawing I explored the alternating patterns of light and dark as well as the varying degrees of changes in contrast. In both drawings I paid attention to the relationship between the figure of the model and the constrained rectangular ground of the page.
media	vine charcoal, compressed charcoal, 24"x36" drawing paper
context	Winter 2007 - Stanford drawing studio - Drawing I - Kevin Bean, Professor

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph

650 996 ****



Orthographic Drafting Exercises

task	Construct a visually interesting model out of foam core by dividing specified two dimensional shapes and recombining them into a form smaller than a 6" cube. Draw technically accurate orthographic plans, sections, and elevations at 1 to 1 scale.
method	I carefully chose the locations of my plan and section cuts to read clearly and logically. I drew deliberately to meet the exacting standards required for the assignment.
media	foam core, glue, graphite, trace, vellum
context	Summer 2006 - Harvard design school studio - Career Discovery - Dubravko Bacic, GSD

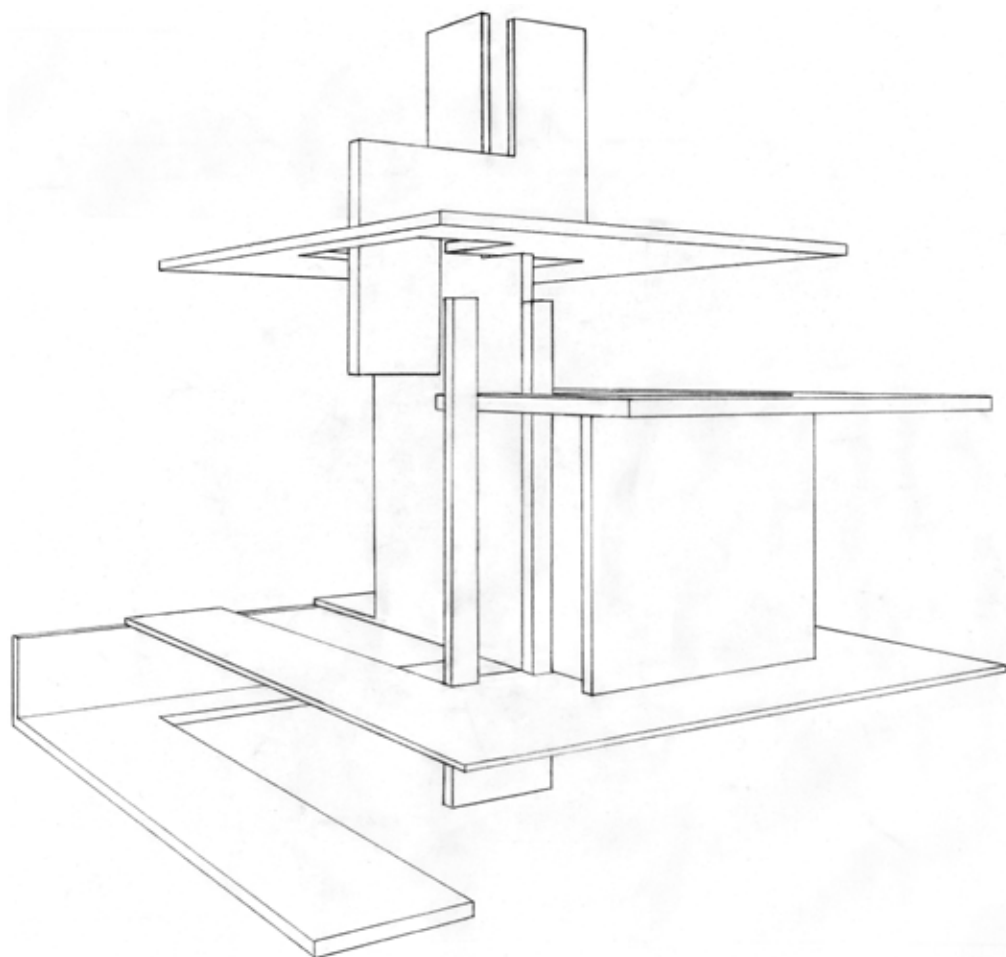
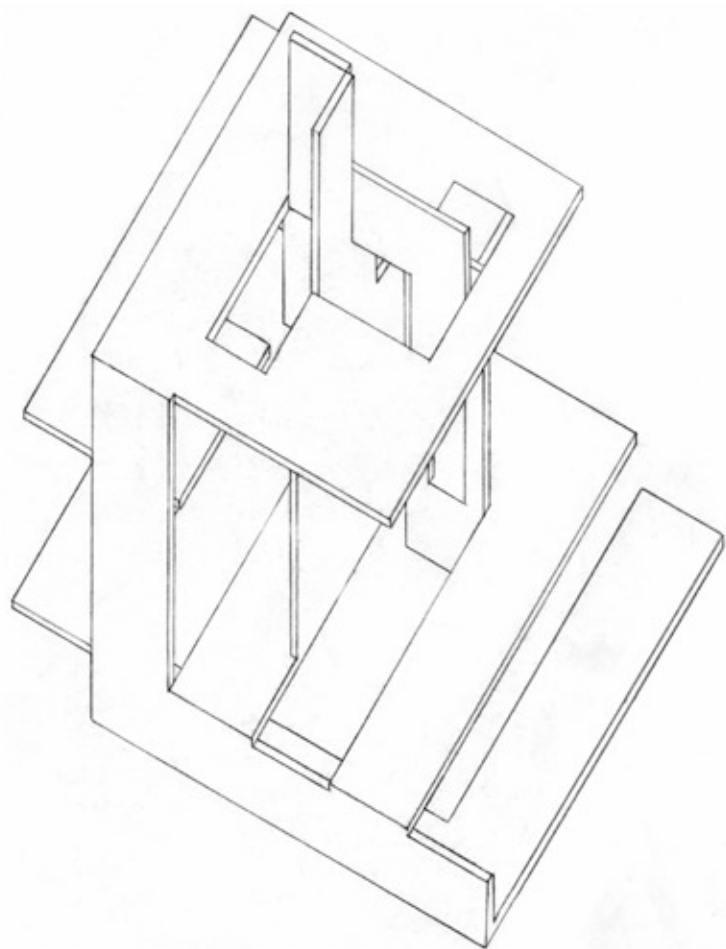
design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph

650 996 ****

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

lehrburger at gmail dot com

Steven Jerome Lehrburger



Projection Drafting Exercises

task	Construct a visually interesting model out of foam core by dividing specified two dimensional shapes and recombining them into a form smaller than a 6" cube. Draw technically accurate axonometric and perspective drawings.
method	I experimented with different station points and horizon lines to exact the most dramatic and informative view from the model.
media	foam core, glue, graphite, trace, vellum
context	Summer 2006 - Harvard design school studio - Career Discovery - Dubravko Bacic, GSD

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph

650 996 ****



Architectural Photography II Photographic Architecture

task	Create a uniquely-presented final portfolio consisting of my fifteen best prints.
method	The negatives I had expose d over the quarter captured a variety of subjects, and I wanted to investigate relationships between them. I drew upon childhood memories of Charles and Ray Eames' House of Cards to create a buildable photographic experience. I specified themes for each of the five visible faces: graffiti, structure, macro, portraits, fog. Subtle annotations near each slot specified a single construction sequence. I considered the location of and compositional implications for each slice cut out of the pristine prints.
media	Leica single lens reflex camera, black and white 35mm films, photographic paper, museum board, drymount adhesive
context	Autumn 2005 - Stanford seminar - Photography I - Lukas Felzmann, Professor

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph

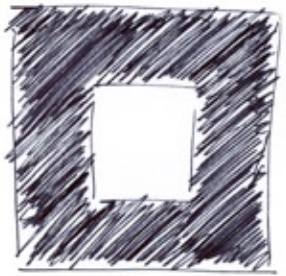


Independent Artistic Photography

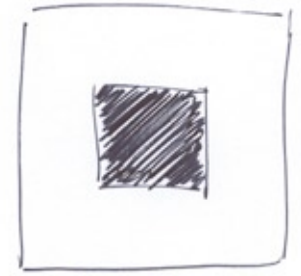
task	Capture beautiful images while traveling in Europe.
method	I carried my camera as often as possible and looked constantly for potential compositions. I exposed my sensor to the light of these moments in Ravensbrück, Germany; Helsinki, Finland; and Güzelyurt, Turkey. A 17"x22" print of the exposure of the children is currently being exhibited with two others at the Stanford Coffee House, and of the four only it has been digitally edited (for color).
media	Canon digital single lens reflex camera, Photoshop
context	Spring 2006, Winter 2007 - personal work

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph



positive defines negative
solid defines void



negative defines positive
void defines solid



ascension to artistic
religious act



double helix
mirrored/complementary/inverse processes for image creation

Duplex for a Couple of Photographers

task	Imagine two distinct and interesting clients and design a duplex in which they both might live for a small Cambridge MA site.
method	I decided that one client would be a film photographer and the other a digital photographer. The film photographer sees a positive reality, a negative on film and a positive print, and thus his voids define his solids. The other works only with a positive image and thus his solids define his voids. I designed their residence to manifest, explore, and eventually resolve their inverse methods of image creation. I intertwined the staircases that ascended to their separate darkrooms to encourage artistic experimentation.
media	ink, paper, museum board, plexiglass, glue
context	Summer 2006 - Harvard design school studio - Career Discovery - Neda Pourshakouri, GSD

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph

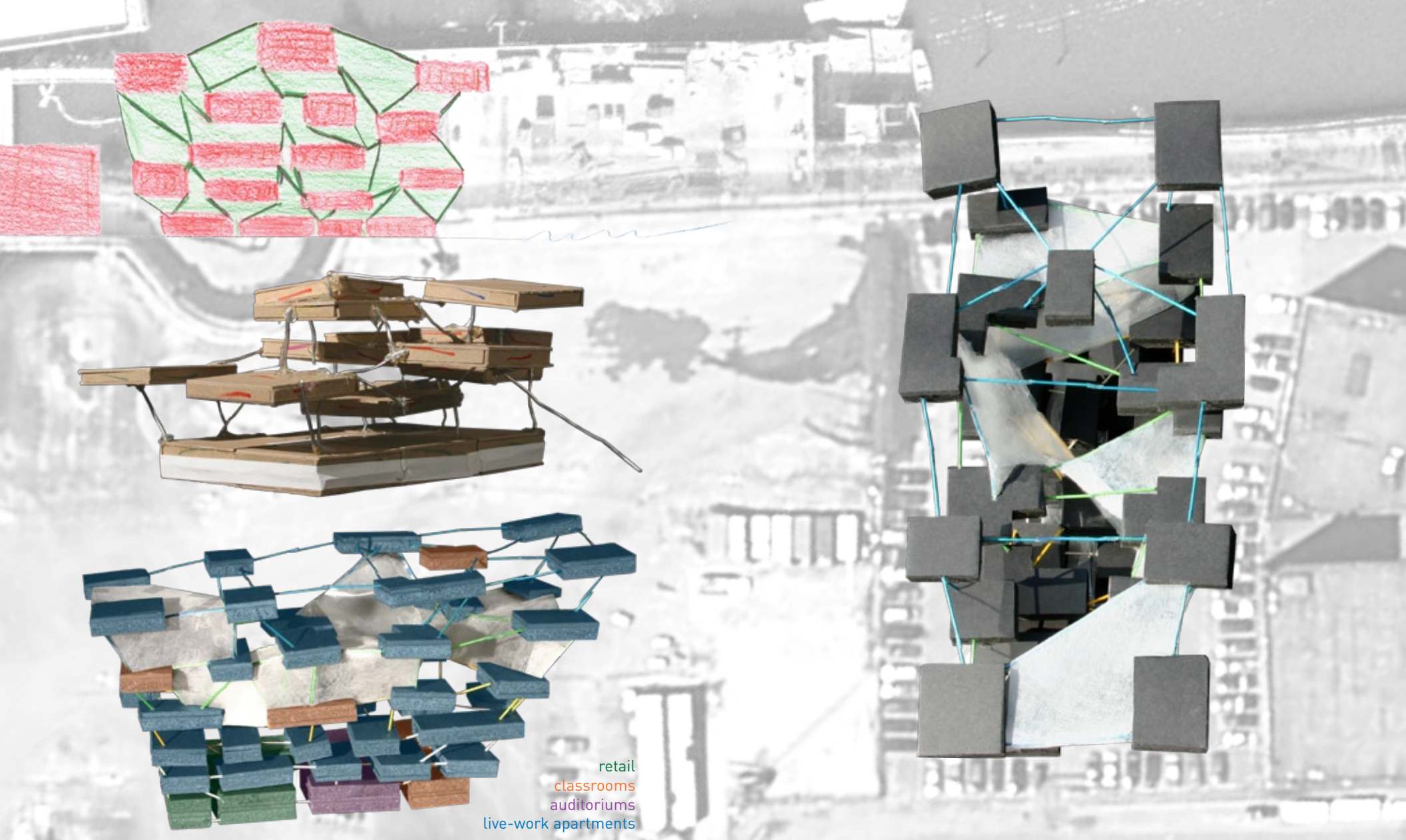
650 996 ***

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

lehrburger at gmail dot com

Steven Jerome Lehrburger

sheet 12 of 18



retail
classrooms
auditoriums
live-work apartments

Artists' Cooperative

task	Design a 120 000 square foot artists' live/work/exhibition space for a constrained central waterfront site in Boston MA.
method	I explored axonometric and conceptual explosions of the surrounding brick warehouses to inspire my basic form. I concentrated primary circulation and exhibition spaces in the glazed voids between the solid live/work spaces. Steel structural supports (color coded by level) connect the exploded program blocks and act as secondary circulation paths. These rectilinear pieces are connected only at points which were adjacent in the unexploded form, thus holding the structure in a state of dynamic stasis and ordered chaos.
media	colored pencil, paper, chipboard, wire, glue, foam core, toothpicks, sanded transparency sheets, Google Earth, Photoshop
context	Summer 2006 - Harvard design school studio - Career Discovery - Neda Pourshakouri, GSD

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph
650 996 ****

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit



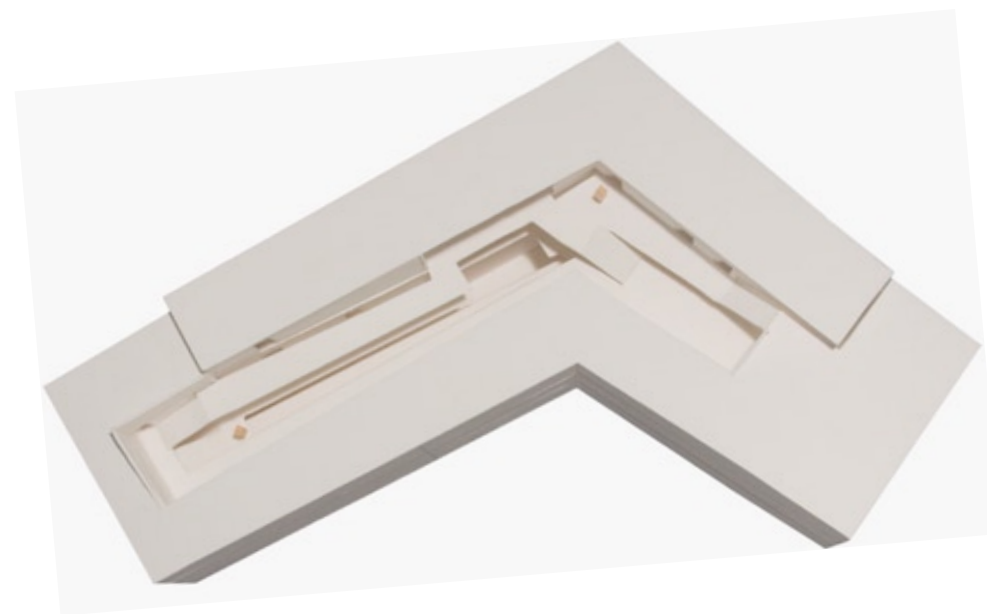
externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

Abu Dhabi Cooperative

task	Assist in the schematic design process for a 2,000,000 square foot retail/office/apartment/ballroom cooperative for presentation to potential developer client. Work with another intern to plan and construct a high-quality conceptual model.
method	We used both digital and physical massing models to carefully design the pieces we would need to build the model before sending the files to to the laser cutter. We assembled the exploded pieces, adapted to unexpected difficulties in construction, and worked hard to meet an upcoming deadline. I then worked with professional photographer Jock Pottle in his studio to capture the above images.
media	laser cut acrylic sheets, scale figures, belt sander, Rhinoceros 3D, AutoCAD, Illustrator
context	Autumn 2007 - professional internship - Kevin Kennon Architect

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph

650 996 ****



Stanford Green Dorm Project

task	Design the circulation and common spaces of the upper floors for a planned sustainable student dormitory. Model schemes on existing building plans developed previously by contributing students, faculty, and architects.
method	I pulled apart the existing halves of the building to create an open and public interior volume (lower left, lower right). A new split level system permitted continuous circulation (top), integrated common spaces and increased social interaction. Consequent opportunities for natural lighting and ventilation would allow the Green Dorm to exemplify an environmentally sustainable housing paradigm.
media	ink, paper, museum board, wood, glue
context	Spring 2007 - Stanford studio - Green Architecture - Brad Jacobson, EHDD Architecture

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph

650 996 ****

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

lehrburger at gmail dot com

Steven Jerome Lehrburger

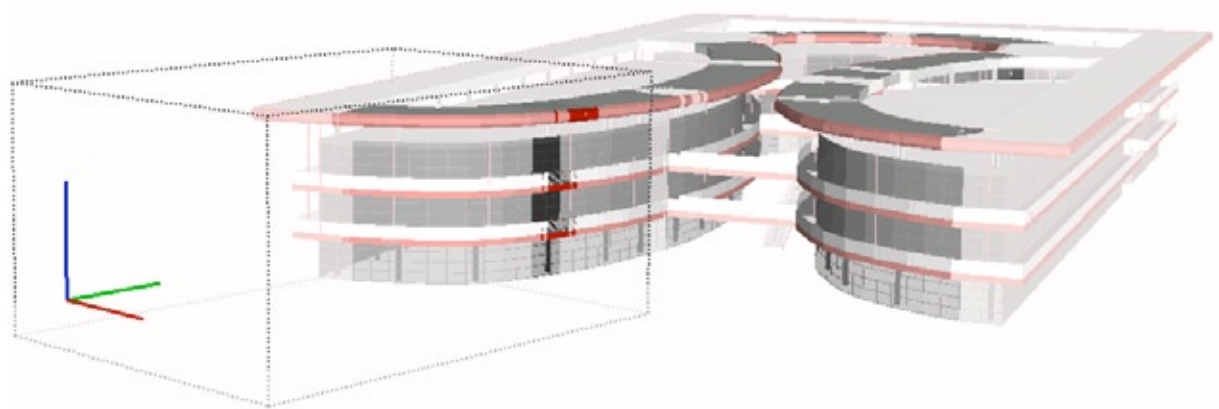
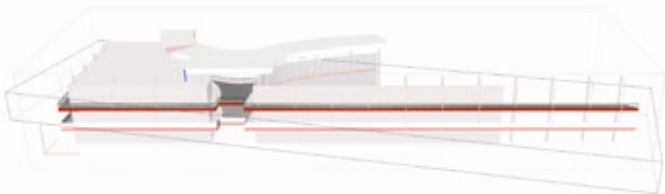
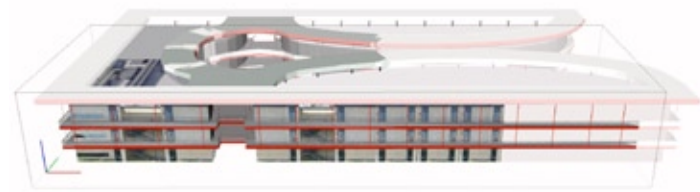
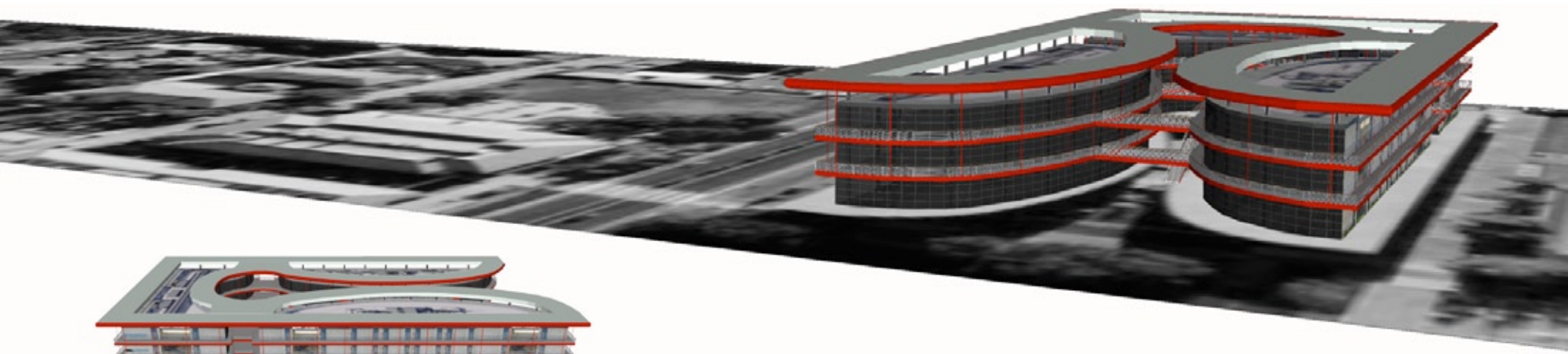


Stanford University Campus - Winning Google Competition Entry

task	Build convincing 3D models of the structures on the Stanford University campus while minimizing file sizes to facilitate online accessibility via Google Earth. Research the purpose of each building before compiling and submitting these files to Google.
method	I worked with another student to develop and obtain approval for a student initiated course that we would use to structure the project. We provided instruction and motivation to a team of eight students as they used photographs and building footprints to extrude the campus out of the map. I compiled these models and was responsible for communications with faculty, staff and Google employees.
media	building photographs, Photoshop, Google Earth, SketchUp
context	Spring 2007 - Stanford student initiated course - Google's Build Your Campus in 3D Competition

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph
650 996 ****

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit


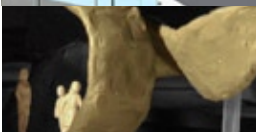


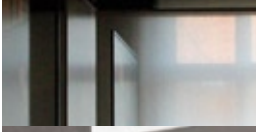

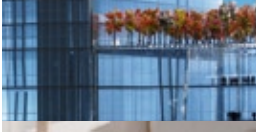




SketchUp Model of Foster + Partners' Clark Center

task	Build convincing 3D models of the structures on the Stanford University campus while minimizing file sizes to facilitate online accessibility via Google Earth.
method	To begin this model I extruded simple forms to study possibilities for layered combinations of features in digital representations of buildings. Curved elements can dramatically increase the file size, so I strategically decomposed the building into a set of 17 repeated components consisting only of straight lines. This resulted in a reduction in file size of over 50% to under 1 megabyte.
media	building photographs, Photoshop, Google Earth, SketchUp
context	Spring 2007 - Stanford student initiated course - Google's Build Your Campus in 3D Competition

design
analyze
cooperate
cad
image
model
draft
draw
sketch
photograph
650 996 ****

externalize
extend
explore
exact
expose
experiment
explode
exemplify
extrude
exhibit

externalize		Reinterpreting the Glass House Reinterpreting the Glass House (continued)	sheet 2 of 18 sheet 3 of 18
extend		Intervention in Le Corbusier's Carpenter Center	sheet 4 of 18
explore		Abstract Spatial Study Case Study of Frank Harmon's Prairie Ridge Open Air Pavilion Charcoal Drawings	sheet 5 of 18 sheet 6 of 18 sheet 7 of 18
exact		Orthographic Drafting Exercises Projection Drafting Exercises	sheet 8 of 18 sheet 9 of 18
expose		Architectural Photography II Photographic Architecture Independent Artistic Photography	sheet 10 of 18 sheet 11 of 18
experiment		Duplex for a Couple of Photographers	sheet 12 of 18
explode		Artists' Cooperative Abu Dhabi Cooperative	sheet 13 of 18 sheet 14 of 18
exemplify		Stanford Green Dorm Project	sheet 15 of 18
extrude		Stanford University Campus - Winning Google Competition Entry SketchUp Model of Foster + Partners' Clark Center	sheet 16 of 18 sheet 17 of 18