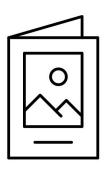
Kadia Miller

Arch 565 Journal

Typical Work Flow

Journal 01 01.17.2025







Conceptual Physical Models for Iterations





Digital Modeling









Editing

Form and Forces

John Ochsendorf

Building a bridge - based in Peru
Day 3 - the bridge is complete and
resembles a basket

Tile Vaulting
(Catalan vaults)
Catalan architecture
Gaudi
origins near Valencia, Spain
Fray Domingo de Petres
1" layer of tile thick - double
curvature + amazing load capacity

Guastavino spiral stairs - tile stairs dome spanning 190 ft. - each day add rings and cantilever and held the worker's weight

this reminds me of Brunelleschi's duomo in Florence.

1961-65 Cuban Art School - long form vaults and domes + sagrada familia being built with this same technology Colonia Guell Hanging Model, near Barcelona

Alex Jordan developed a program to bring gravity into the design environment - gravity free isn't real.

we have lots of analysis tools - not many design tools.

compressive forces in a spiral stair thrust network analysis as a design tool.

constructability is part of the design process!!

Initial Design

Journal 02 Location of Project: Rock field driving out to Natural Bridge Climbing Area.

Topology of Project: Bouldering microhotel for chilling and winter use.

(2)

3

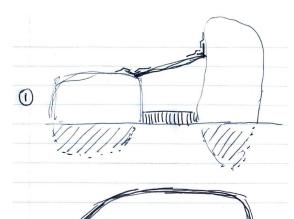
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Inspiration



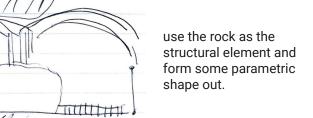
Actual Site from Google Maps



shell shape to cover the rock + climbing area.

water out.

balancing in between 2 rocks - old foam for the floor - some sort of flashing to keep the



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