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.



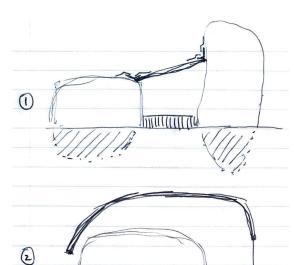
Inspiration

3

J-HHHHTLI



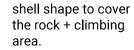
Actual Site from Google Maps



ENCLASION OF

Titttit

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



use the rock as the structural element and form some parametric shape out.

LiDAR Data

Journal 03 02.07.2025

Tried really hard to get the LiDAR data from Montana Lidar Inventory but I couldn't get anything to download even though it is in green and says it has been completed.

