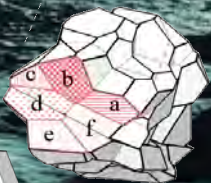
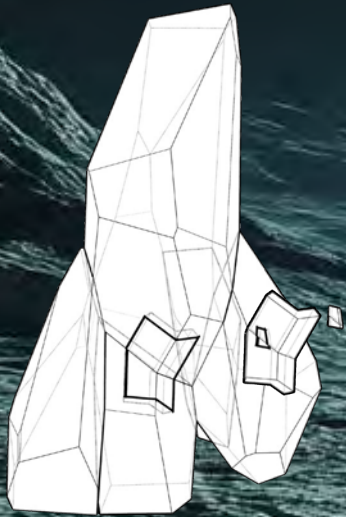
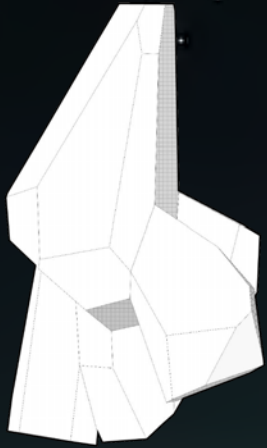


Vertical Moonbase

Vertical Living Habitats for Space Settlers

Workshop 1 Documentation
Jonathan & Walter



Form Logic



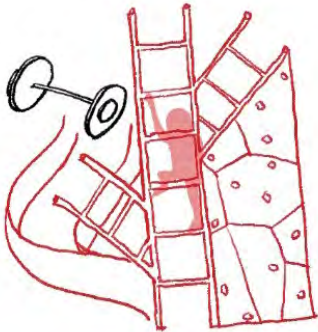
Vertical Structure



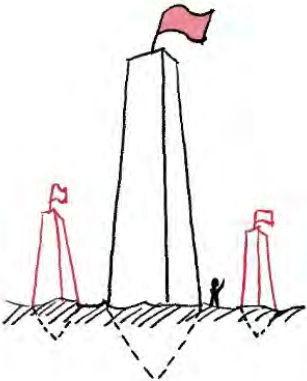
Micro Gravity



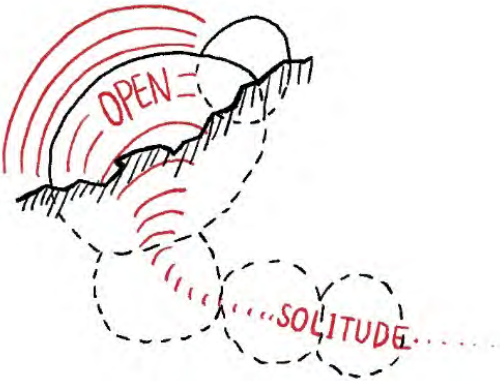
Central Core & Spiral Configuration



Physical Workout Optimization

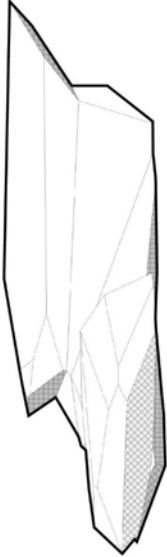
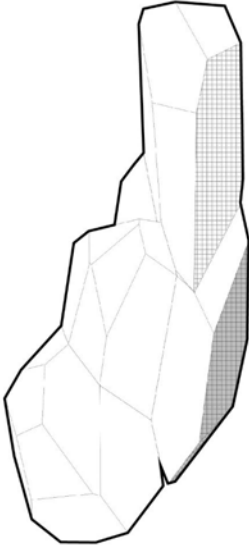
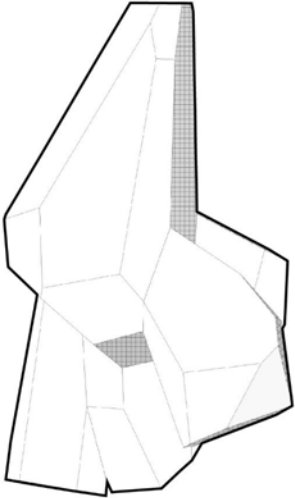
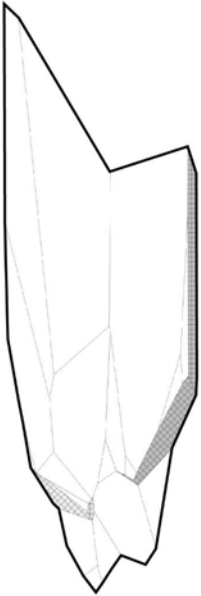
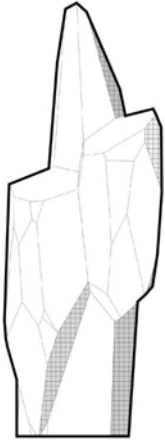
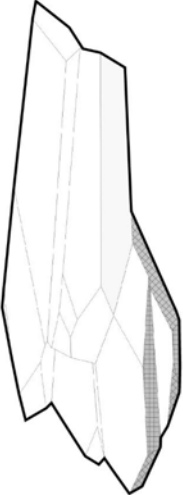
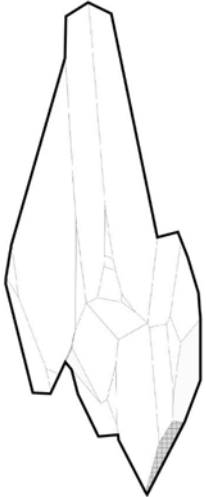


Monumentality of Humanity Presence

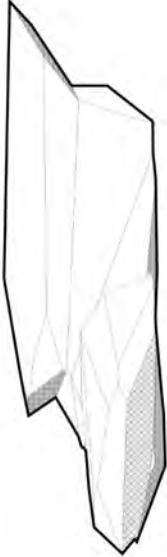
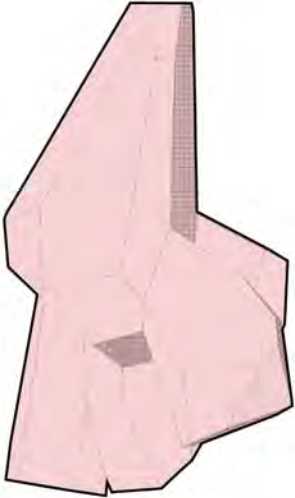
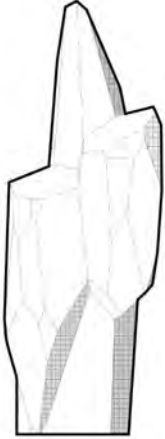
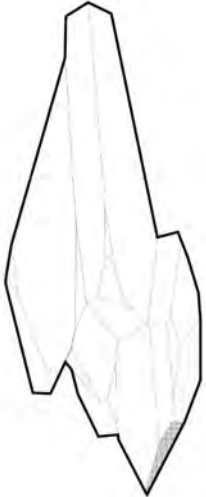


Levels = Privacy Degrees

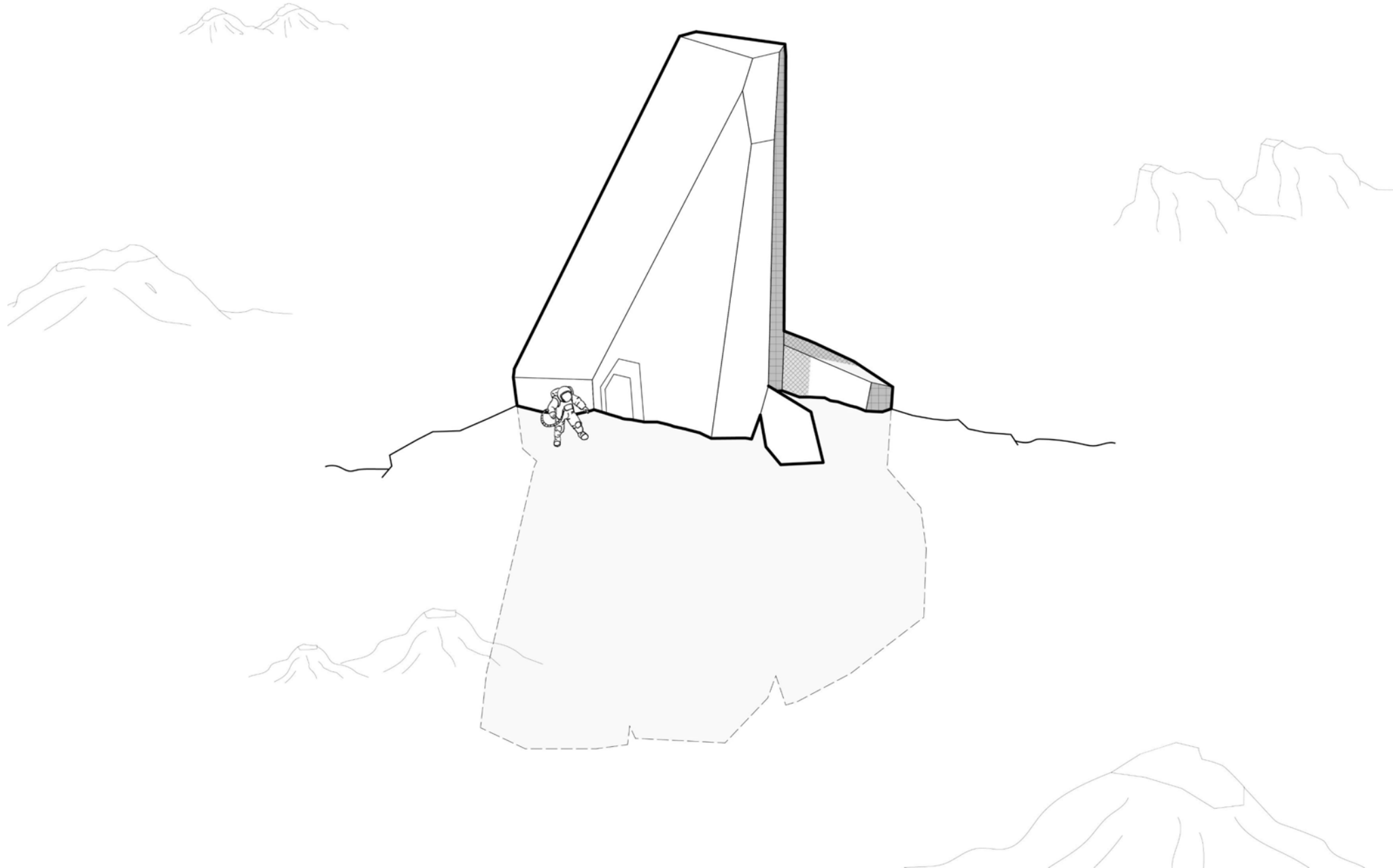
Overall Form Trials



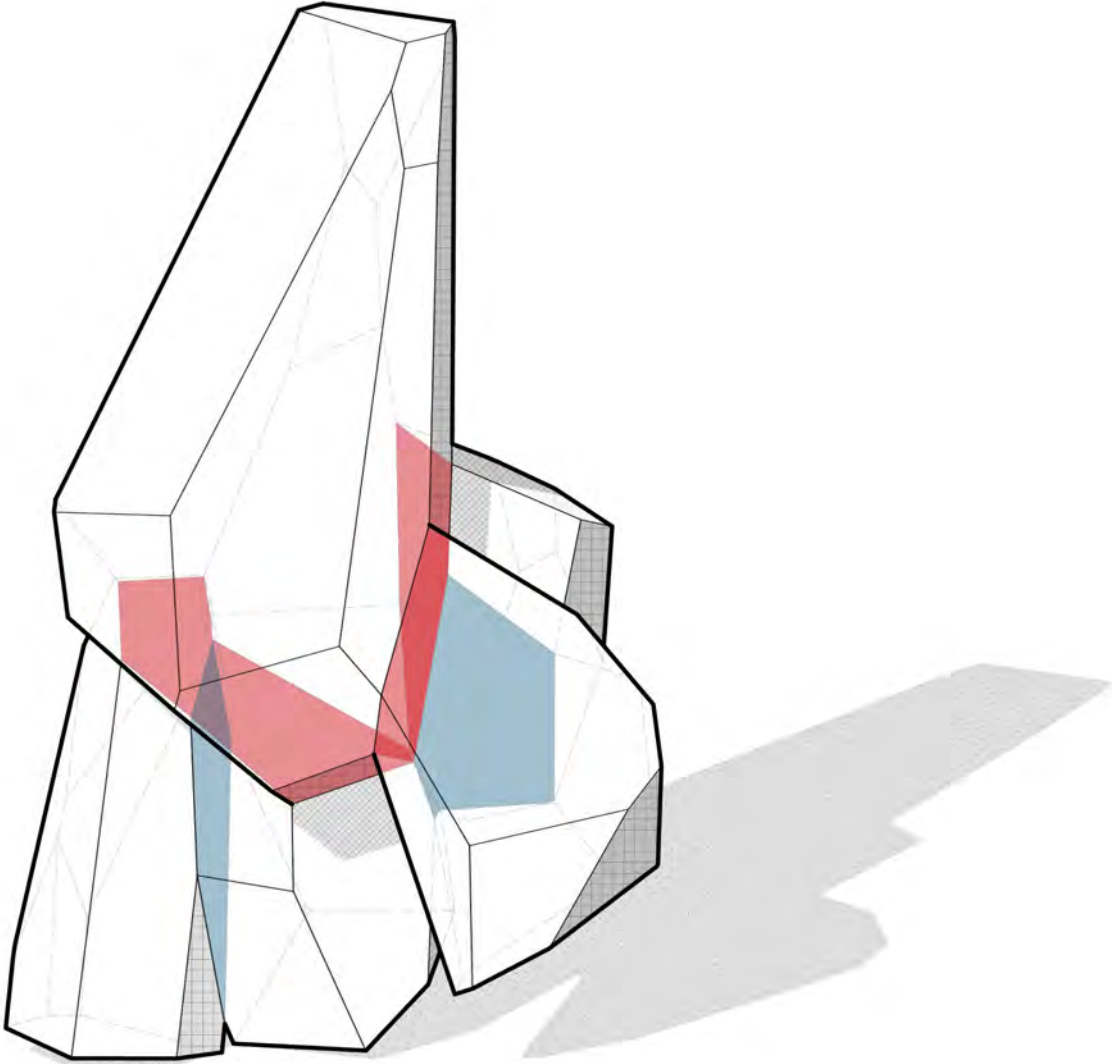
Overall Form Trials



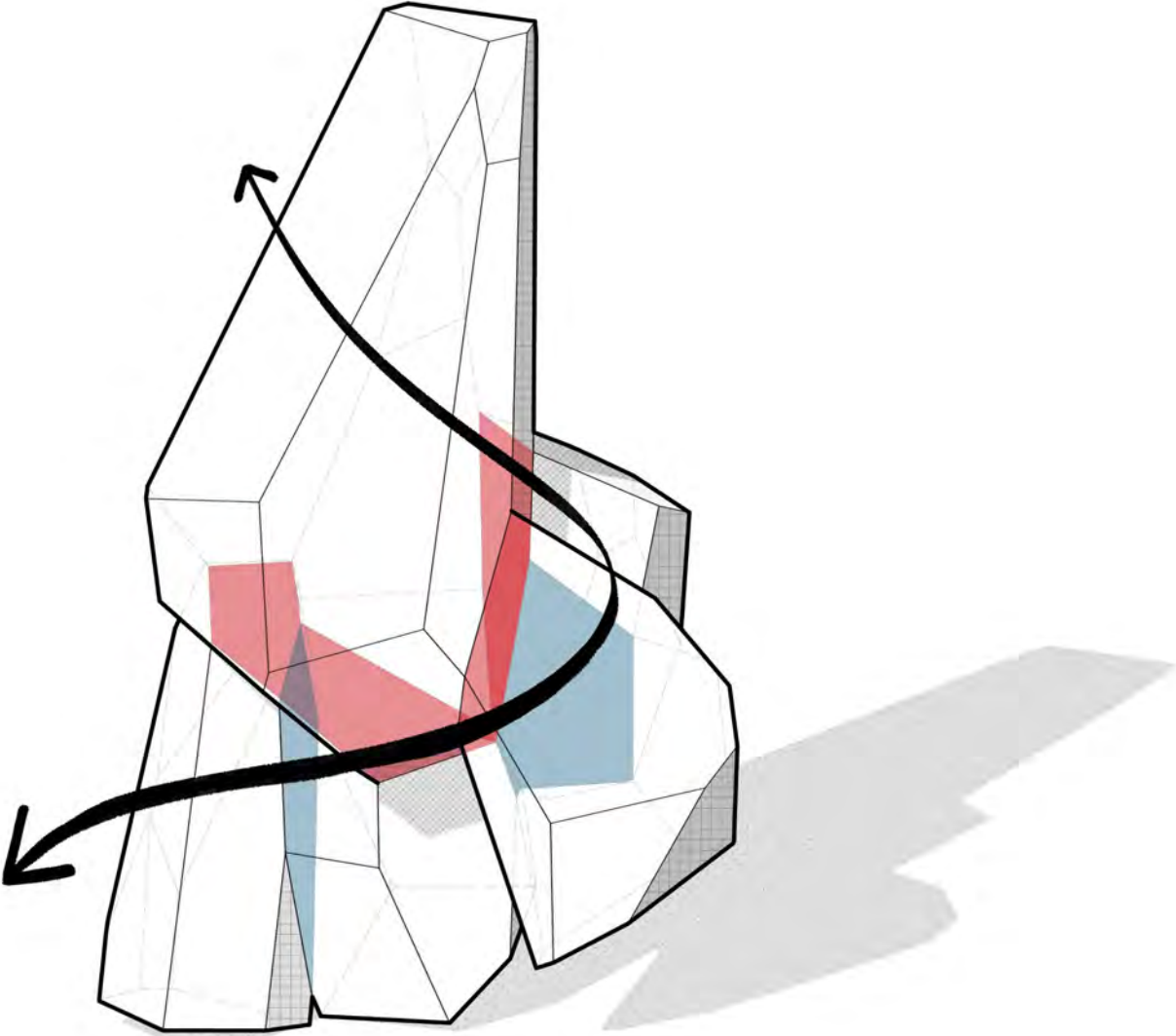
Building Tectonics



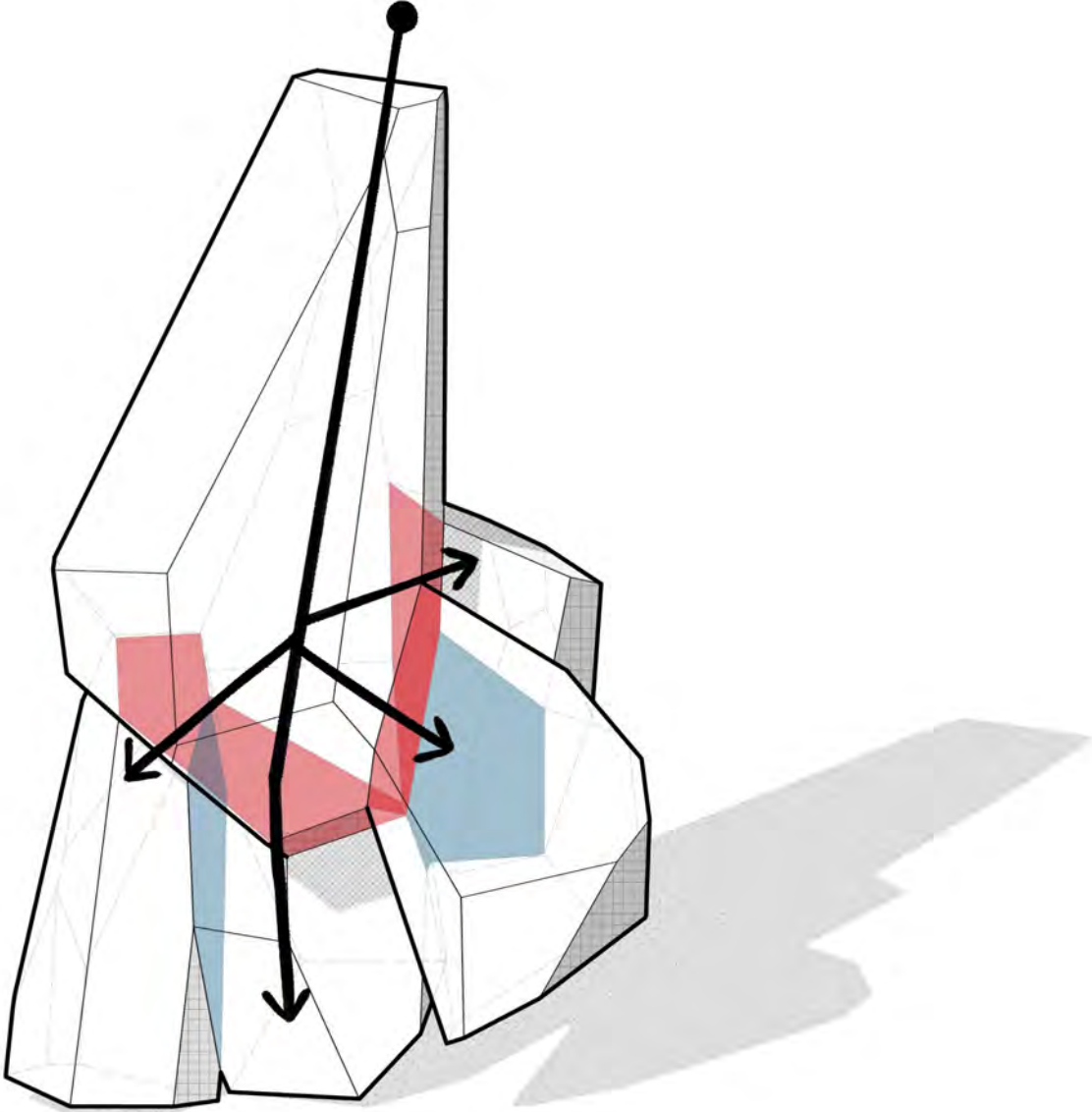
Spatial Connectivity



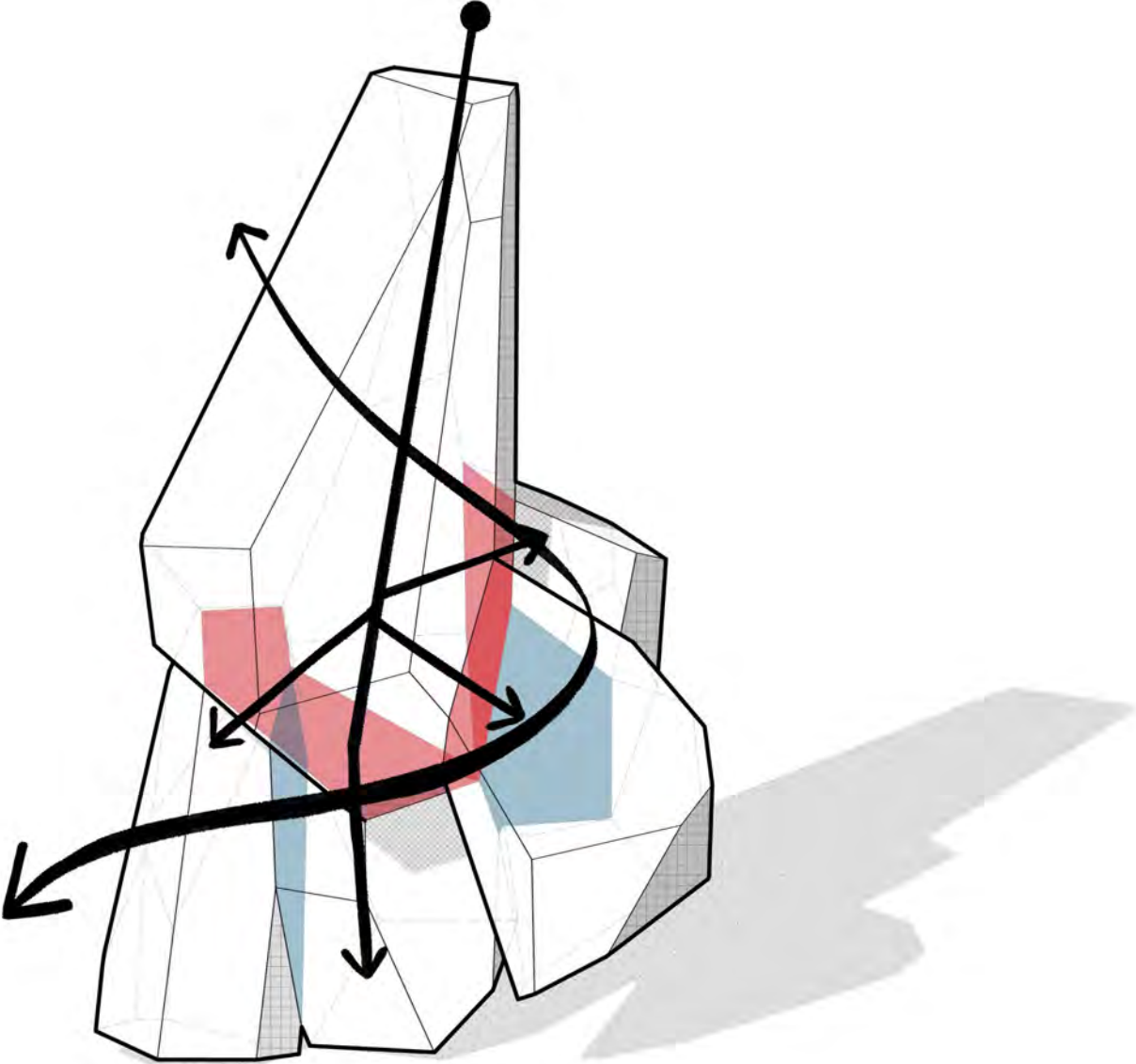
Spatial Connectivity



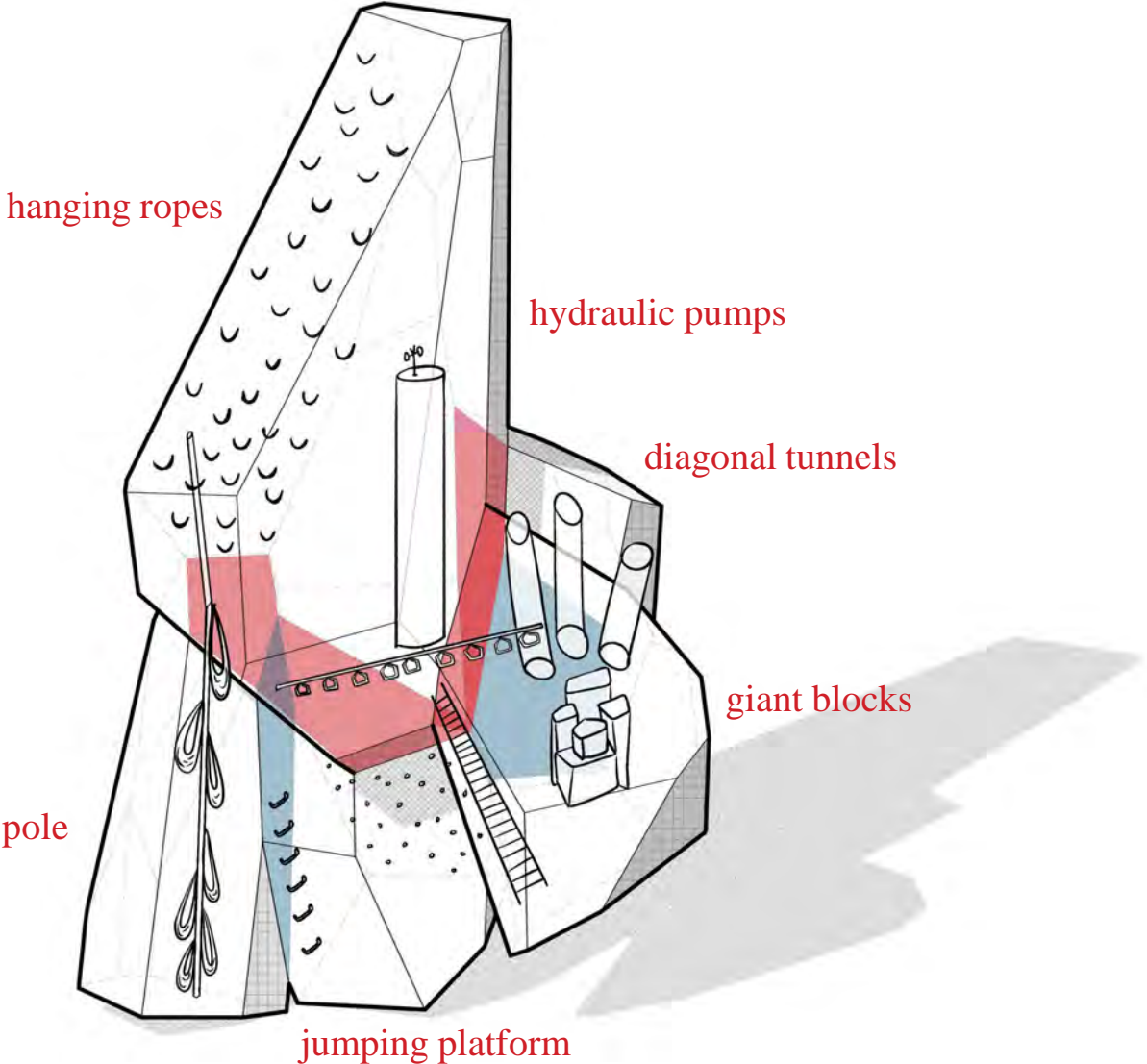
Spatial Connectivity



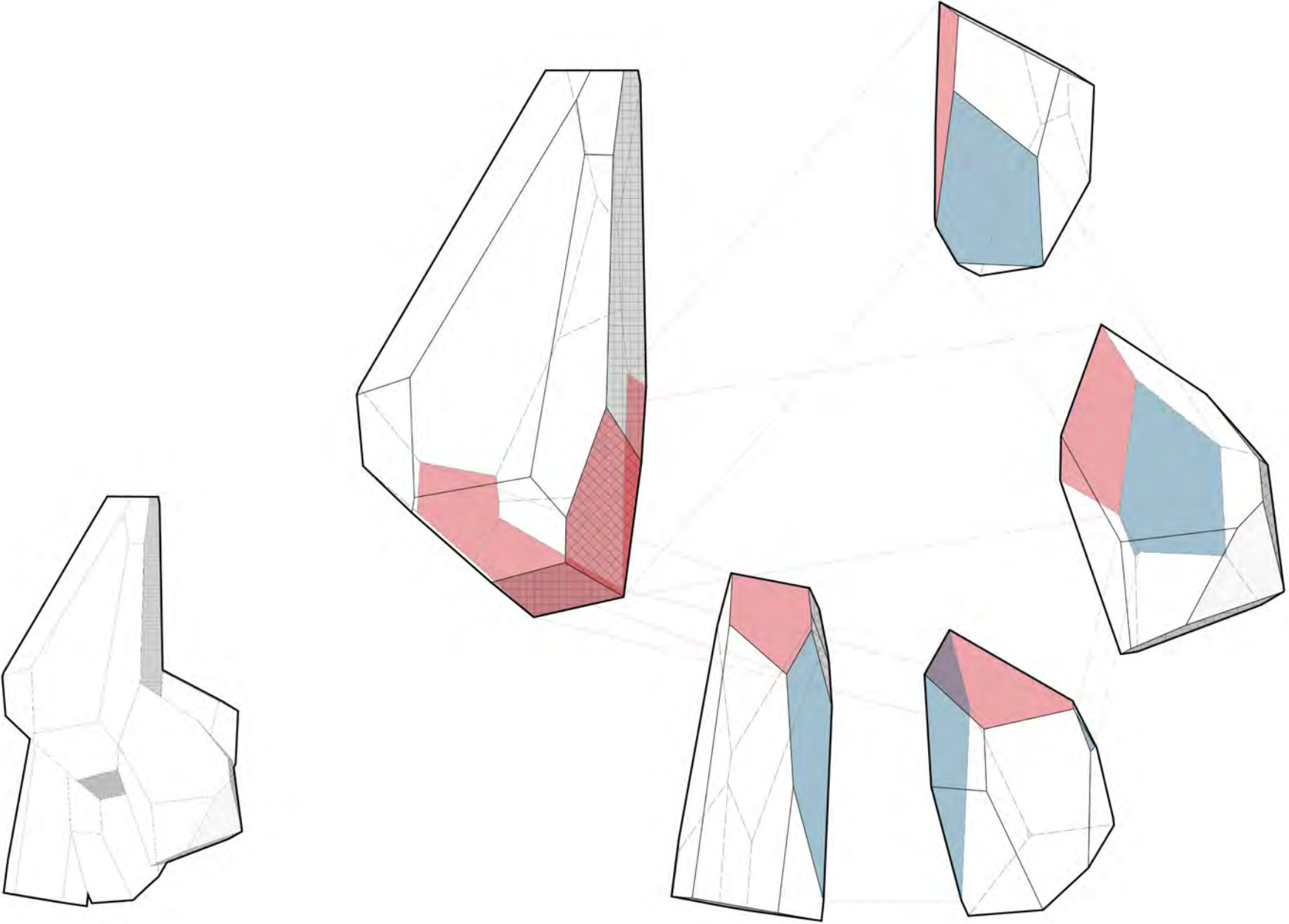
Spatial Connectivity



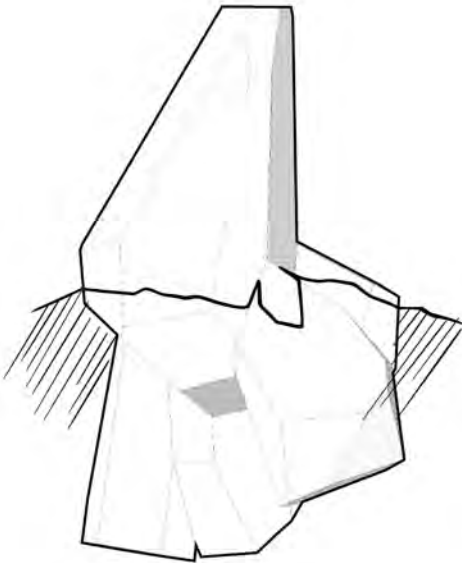
Spatial Connectivity



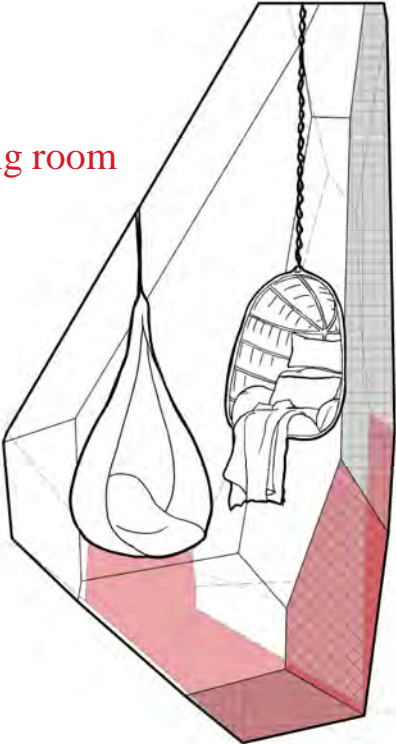
Spatial Programs



Spatial Programs



living room



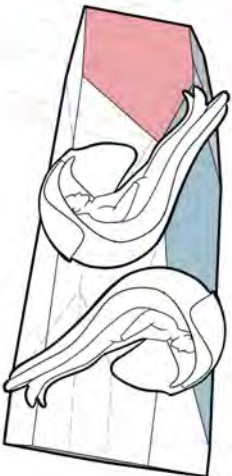
kitchen & food



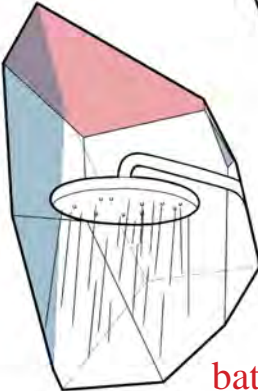
work & research



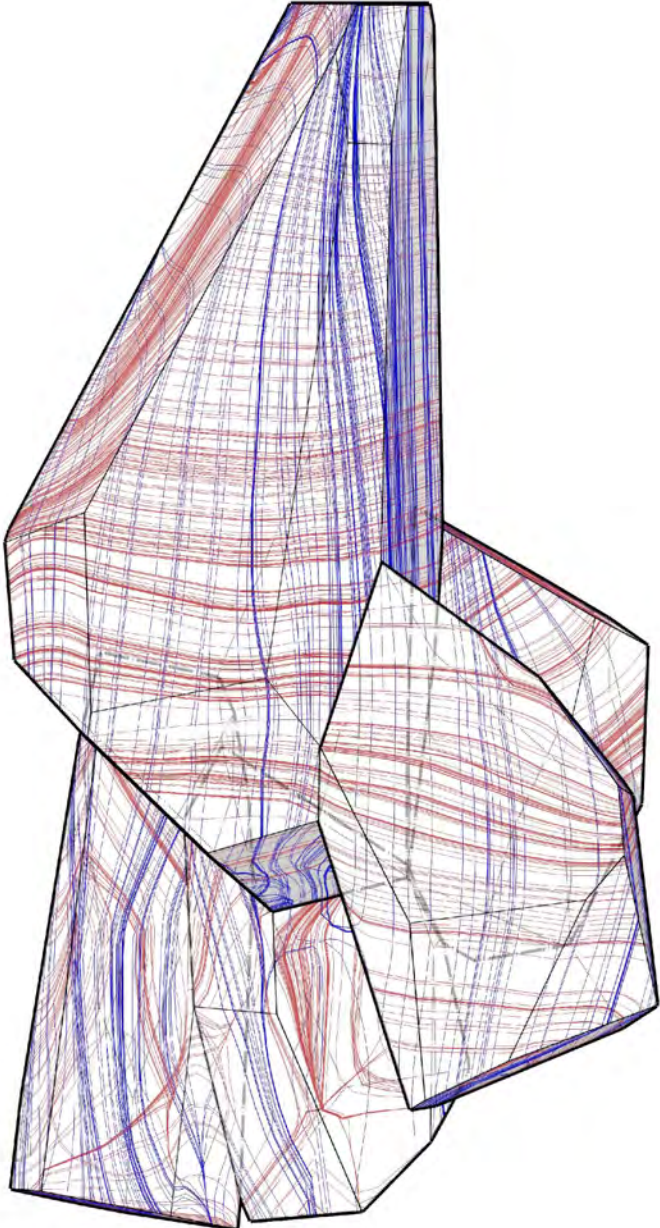
sleep & rest



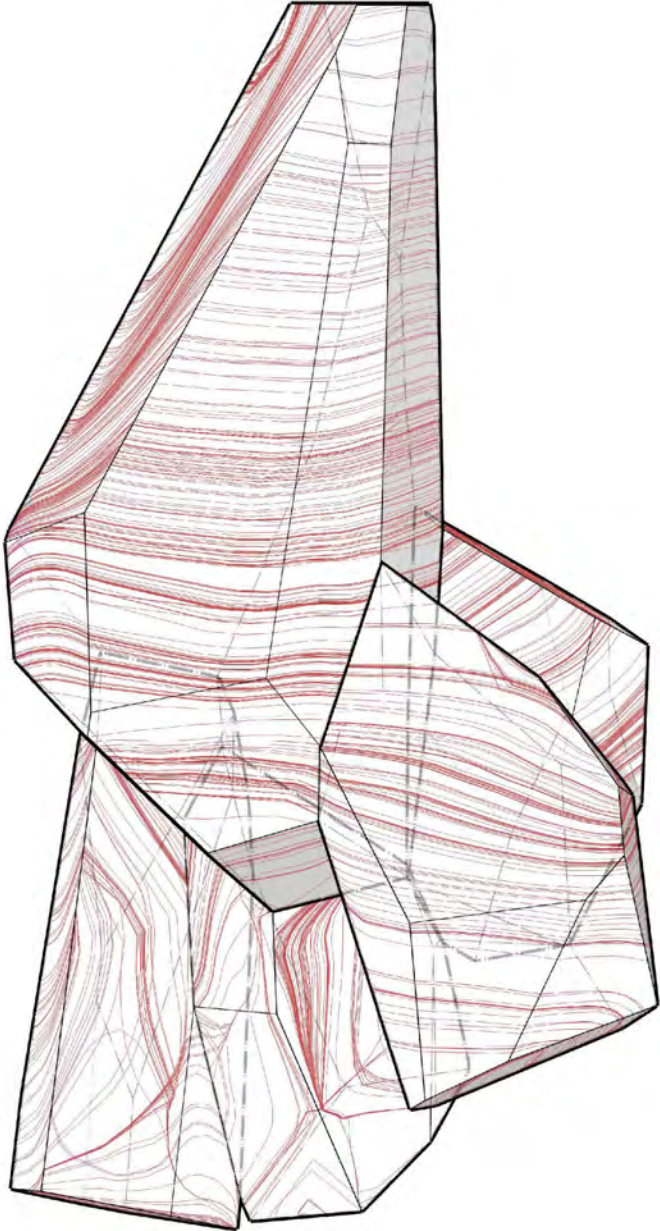
bath & wc



Stress Lines



Tension Lines

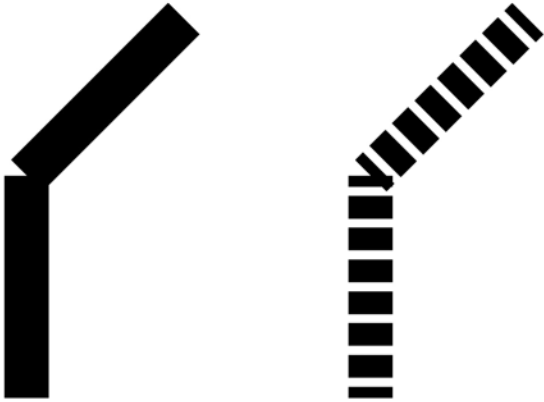
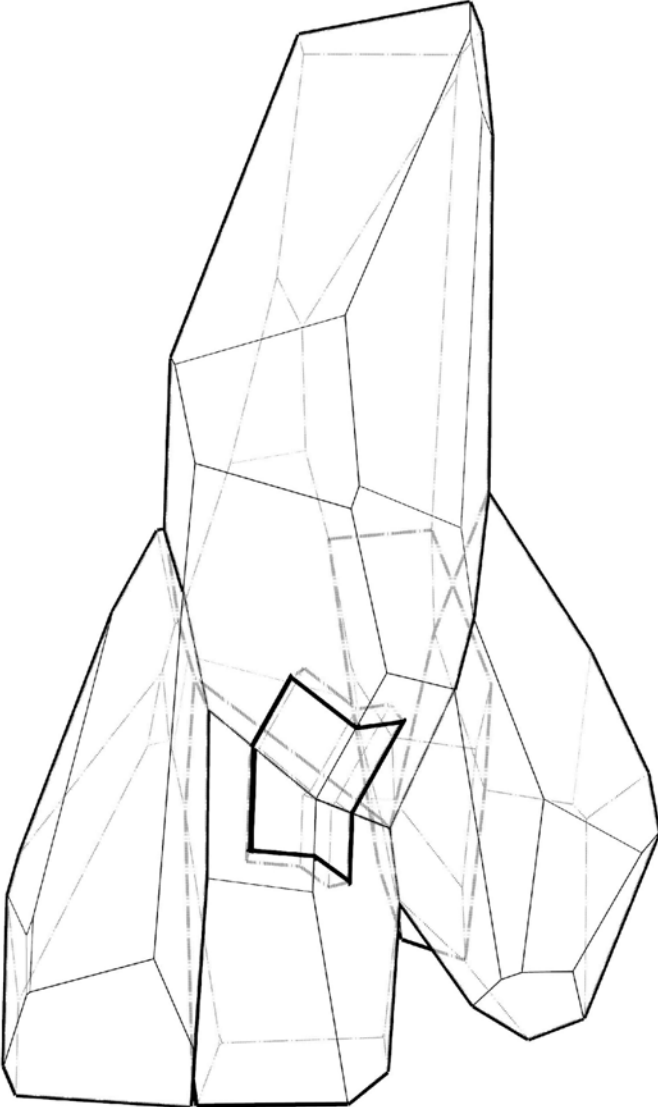


Assuming regolith-based 3D printing material has a similar structural performance to concrete

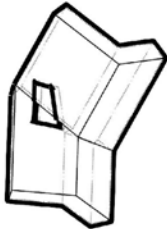
Fra



Fragment

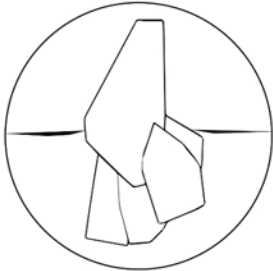


From vertical to inclined plane

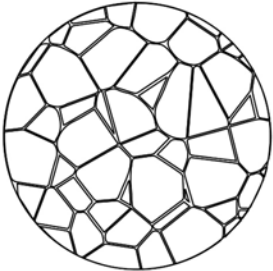


Why Voronoi?

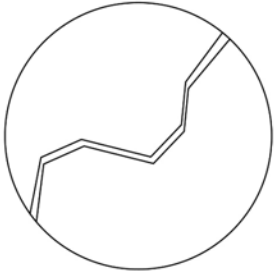
Sub-fragment



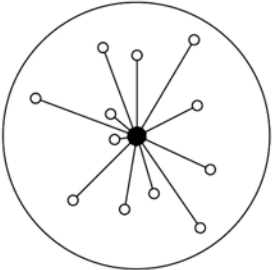
design language
consistency



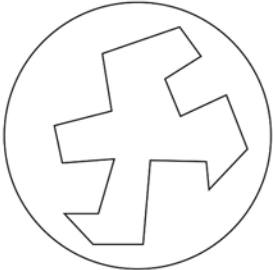
resemblance to
nature



natural interlocking
properties

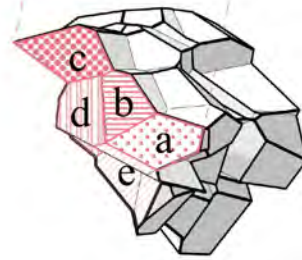
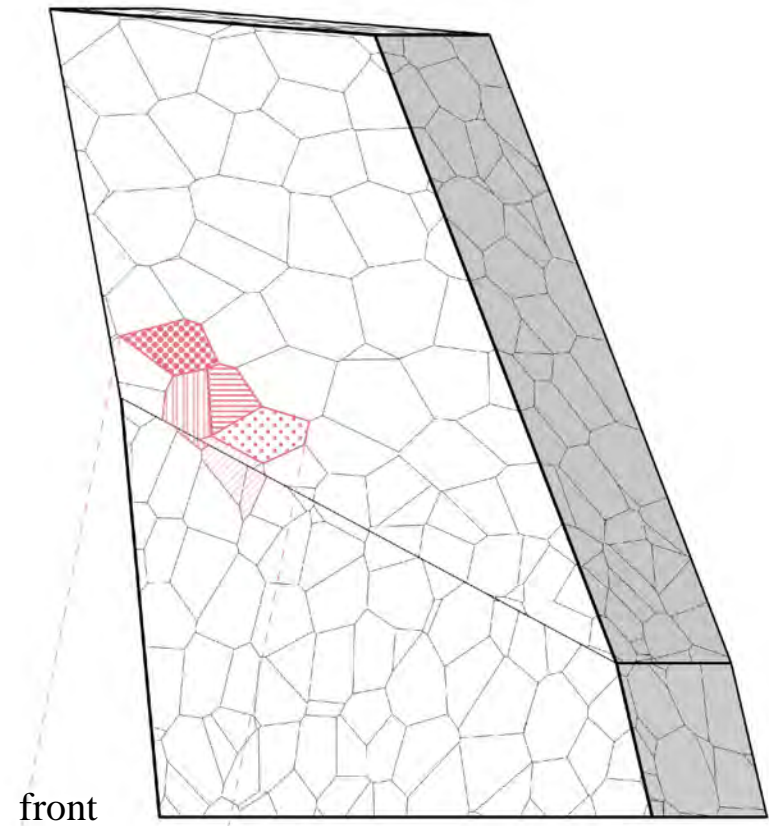
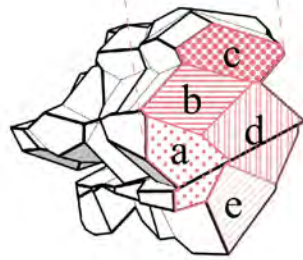
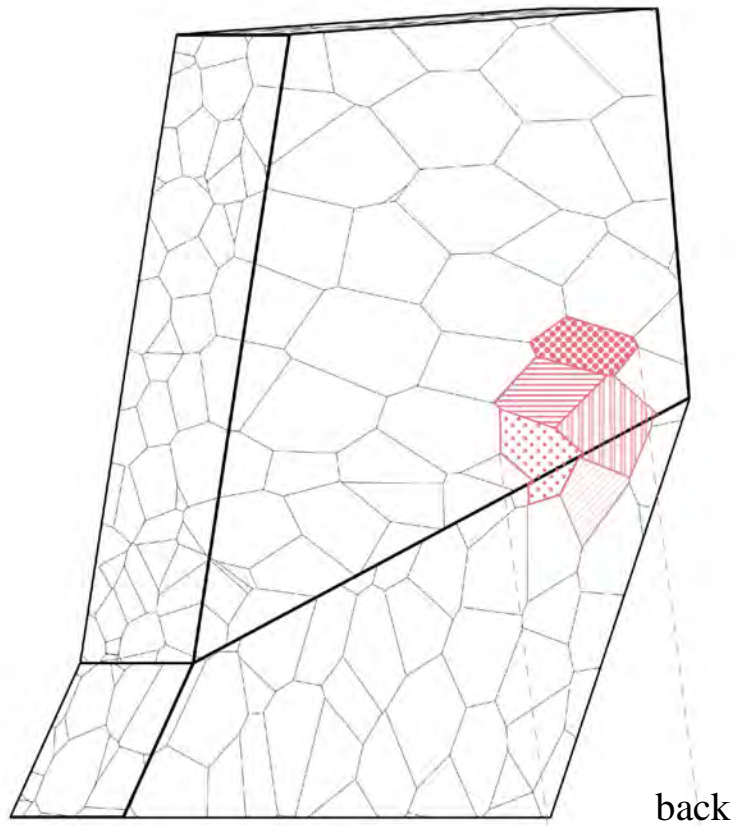


flexibility on rapid
computational generation

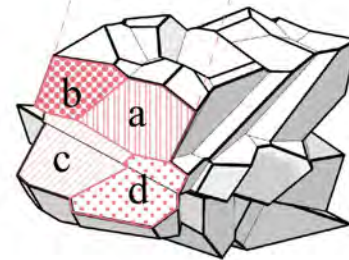
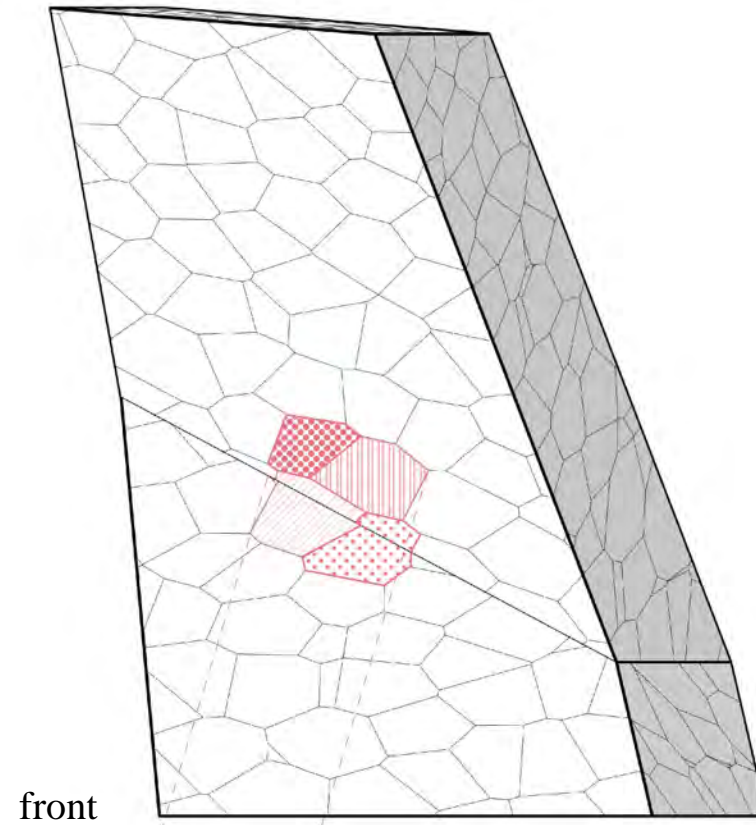
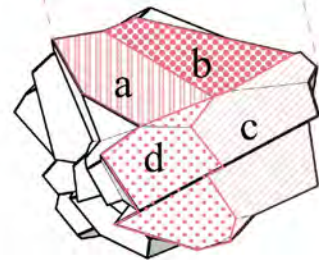
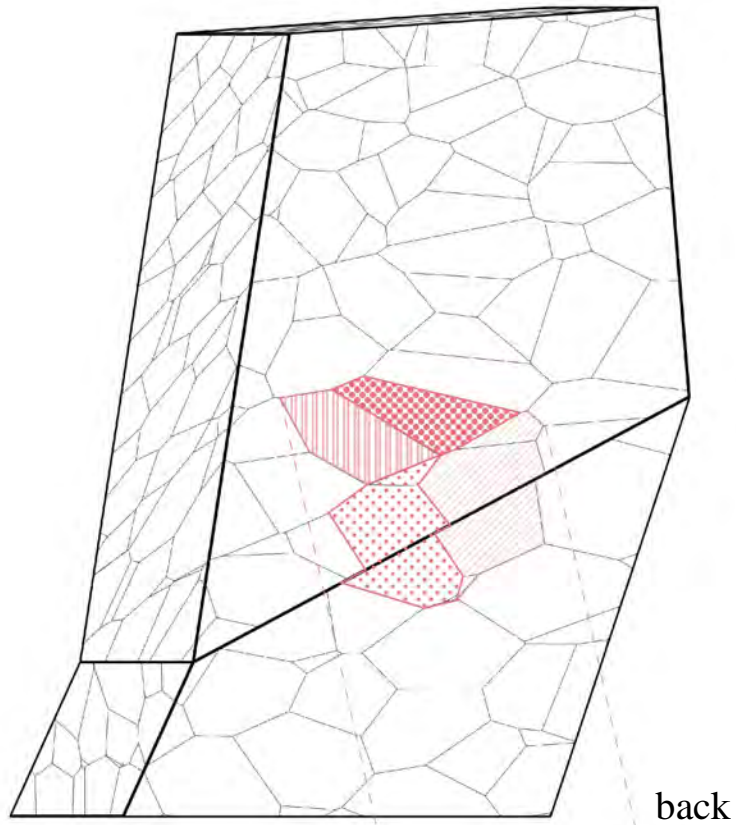


material efficiency
on complex geometry

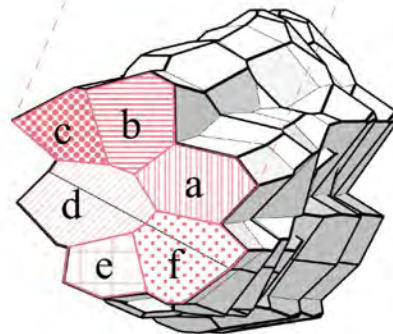
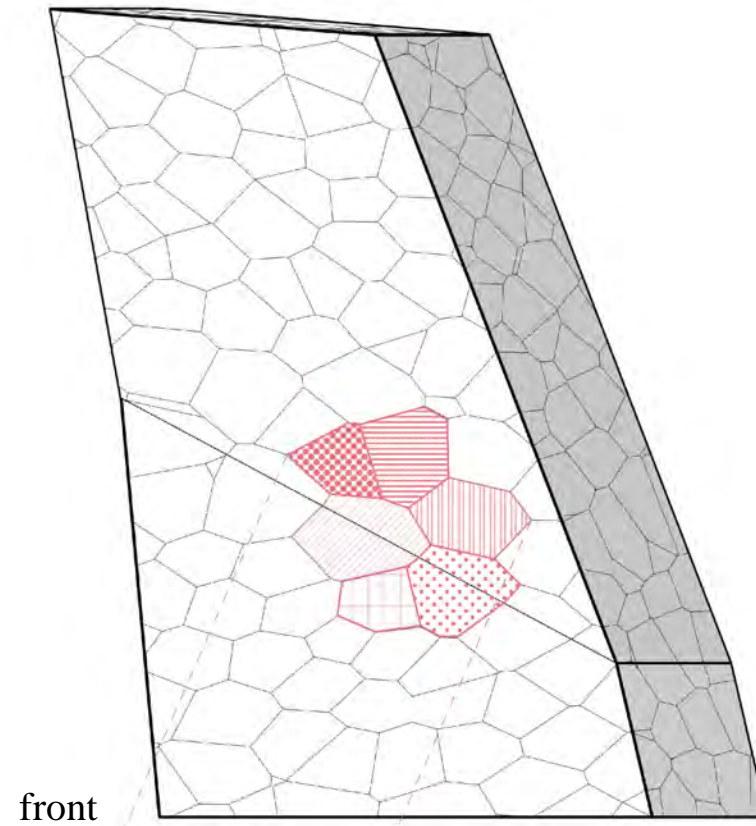
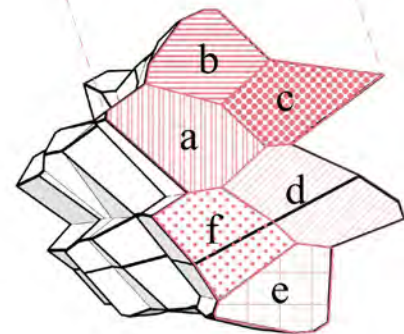
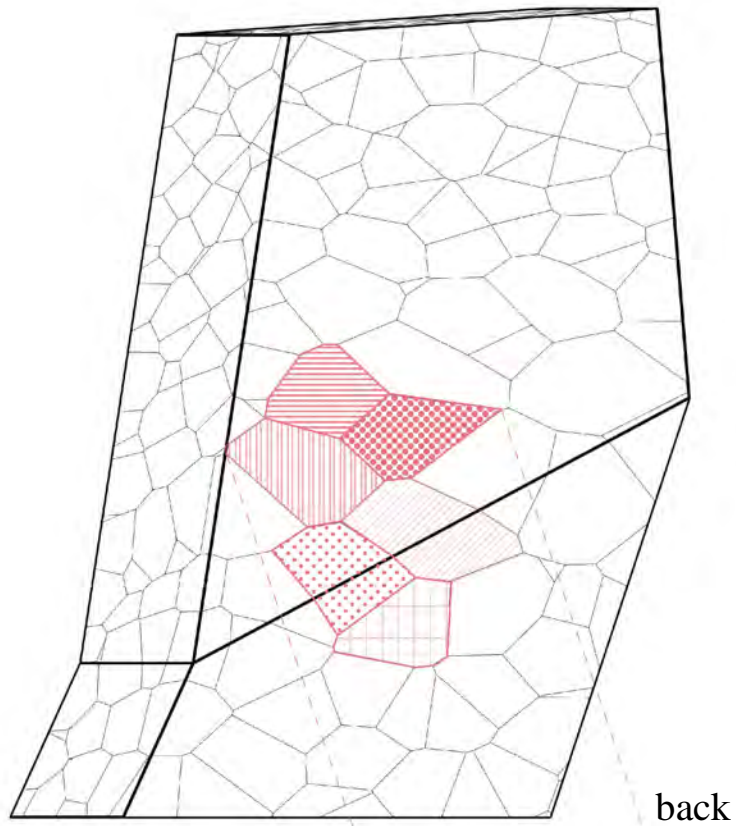
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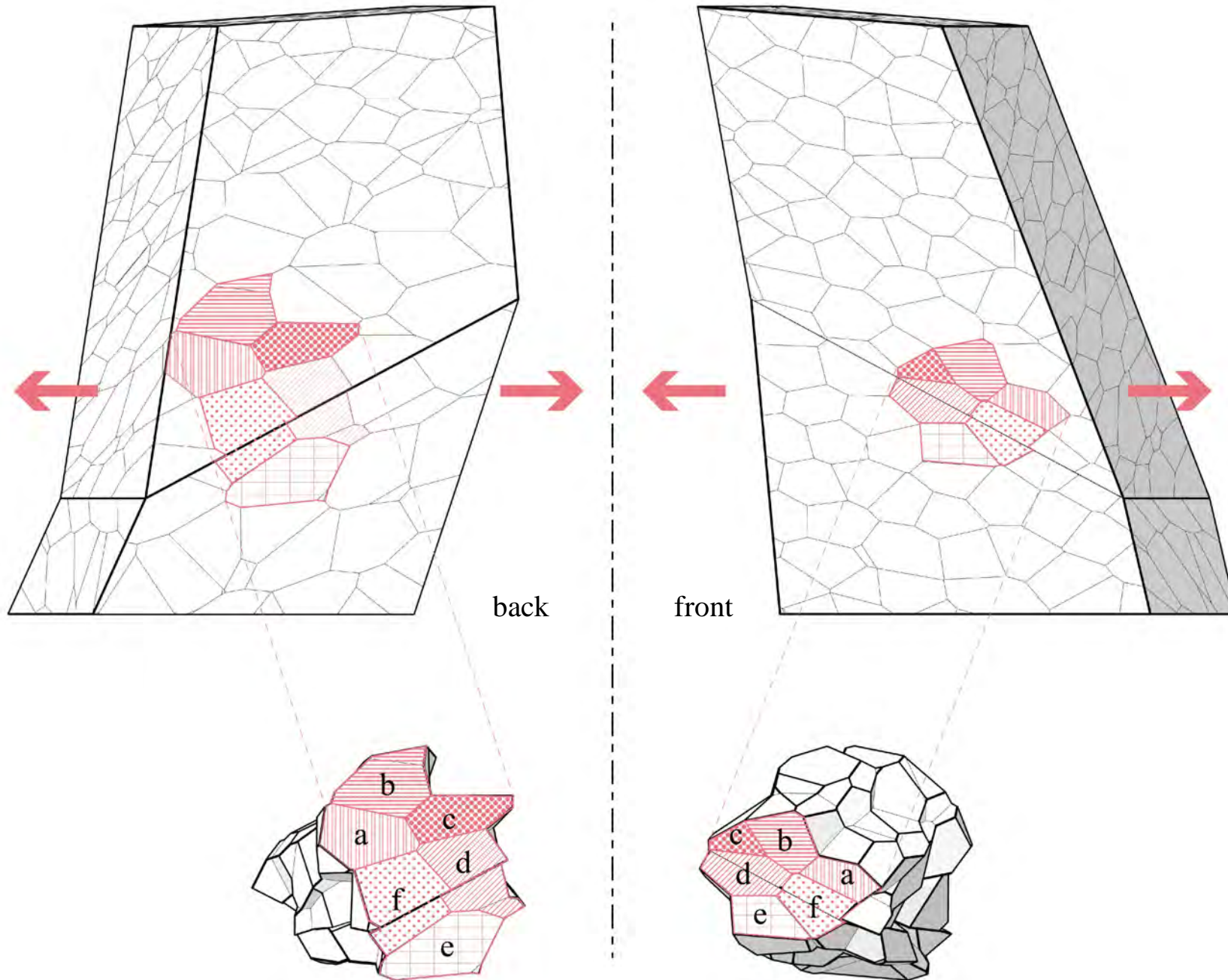
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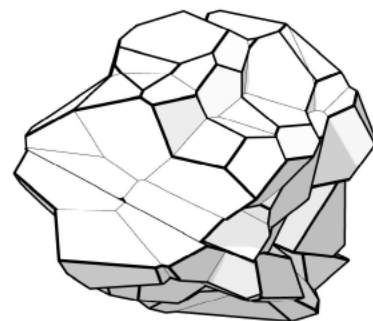
Sub-fragment



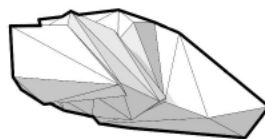
Sub-fragment



Sub-fragment



Sub-fragment

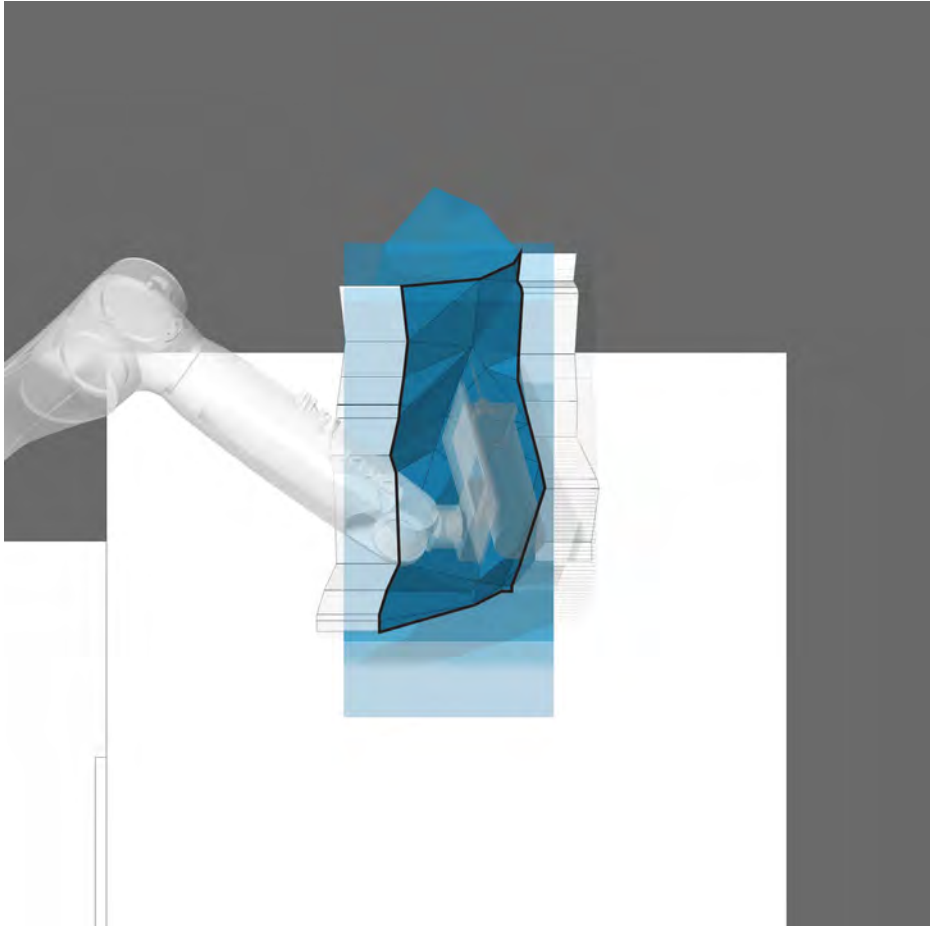


Fabrication: Milling

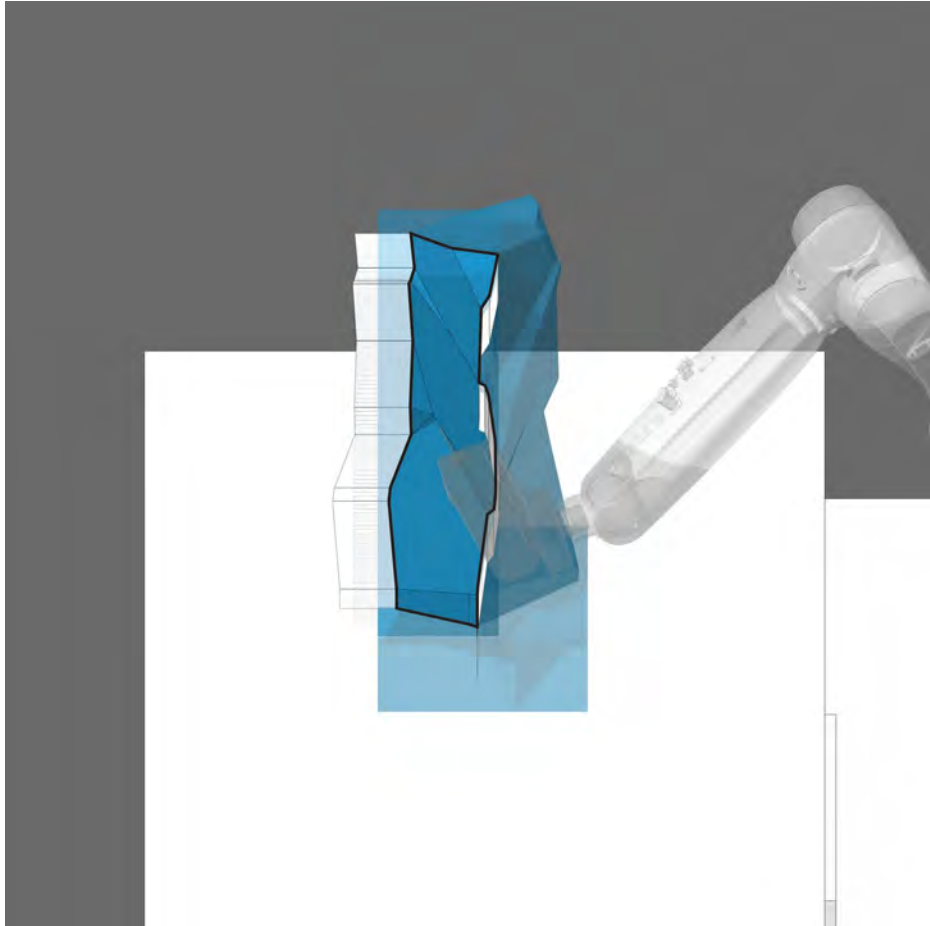
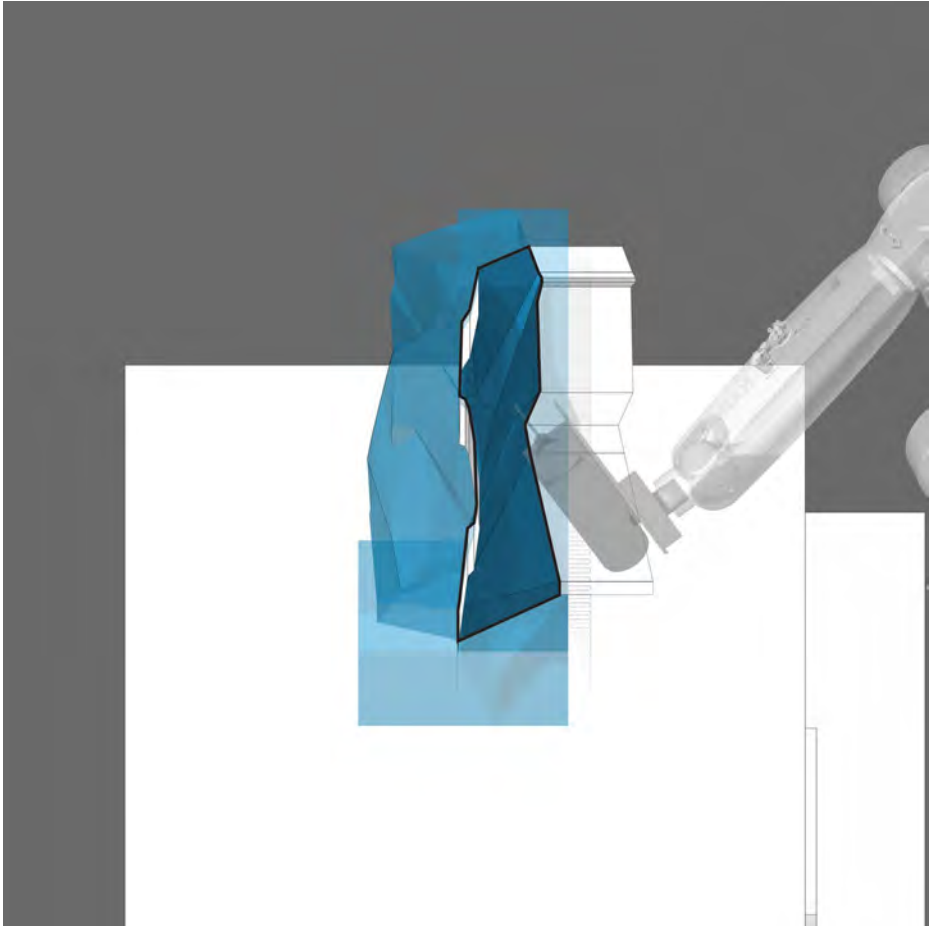


Fabrication: Preparation

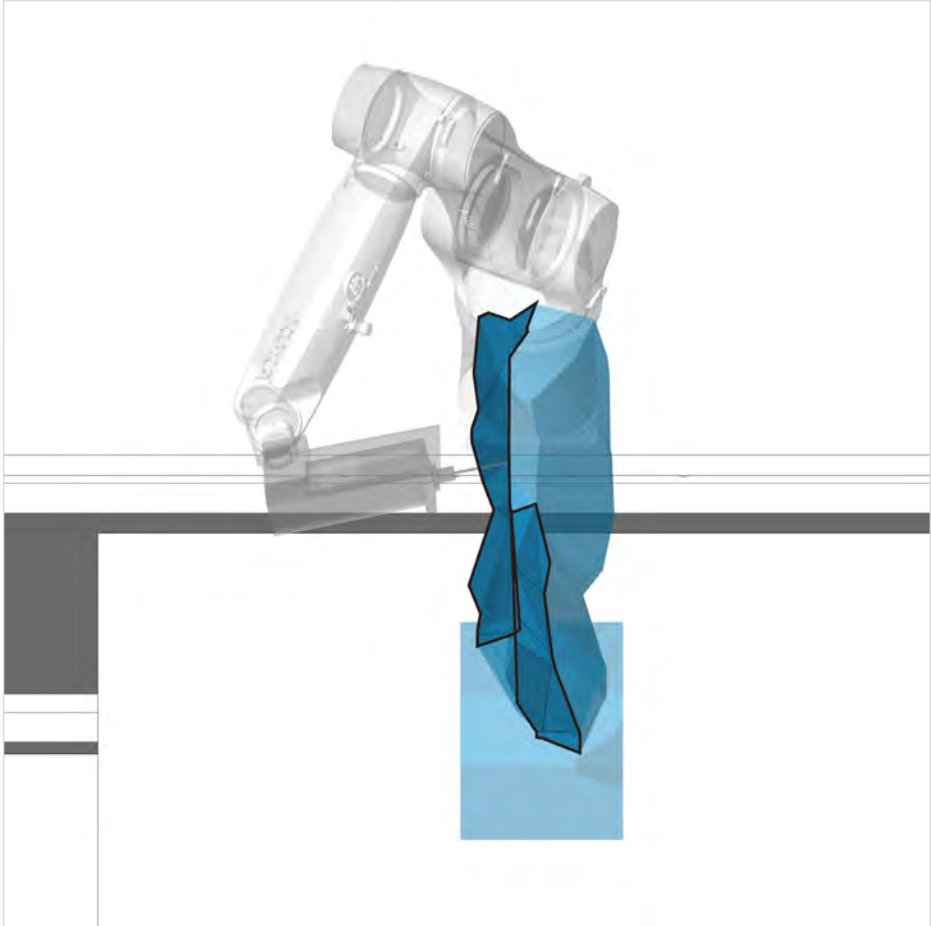
Fabrication: Main Sides



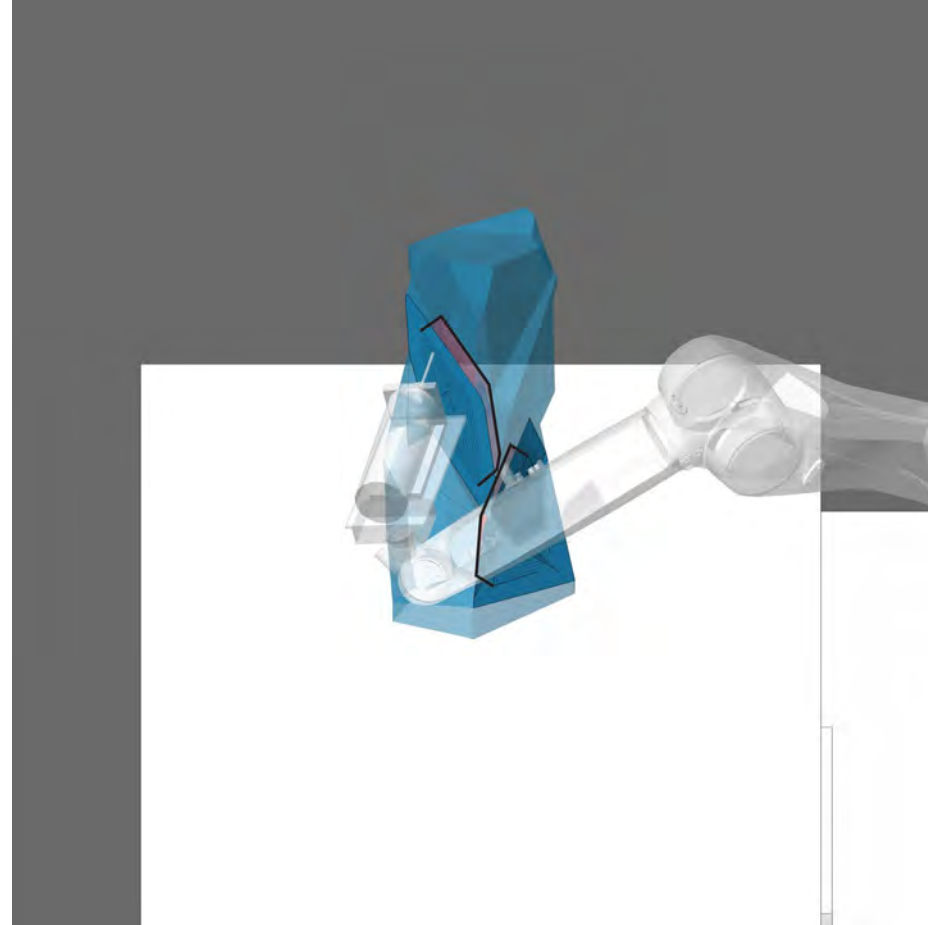
Fabrication: Main Sides



Fabrication: Far-reaching Sides



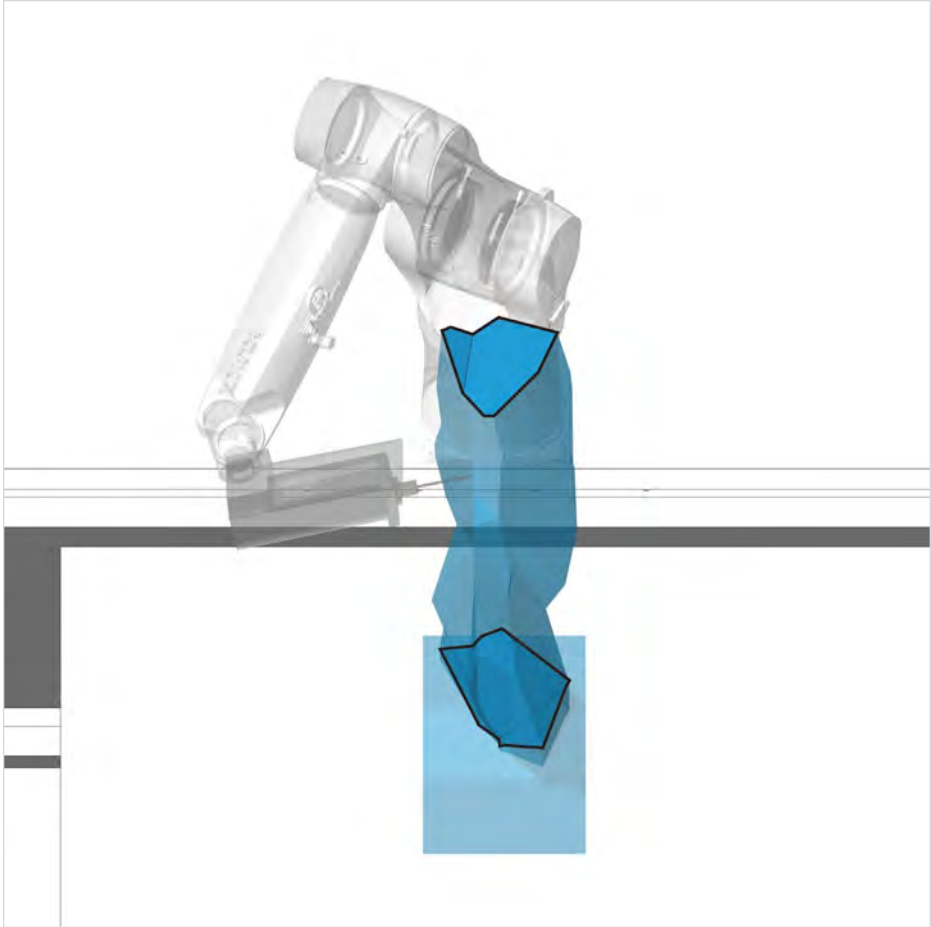
Fabrication: Holding Holes



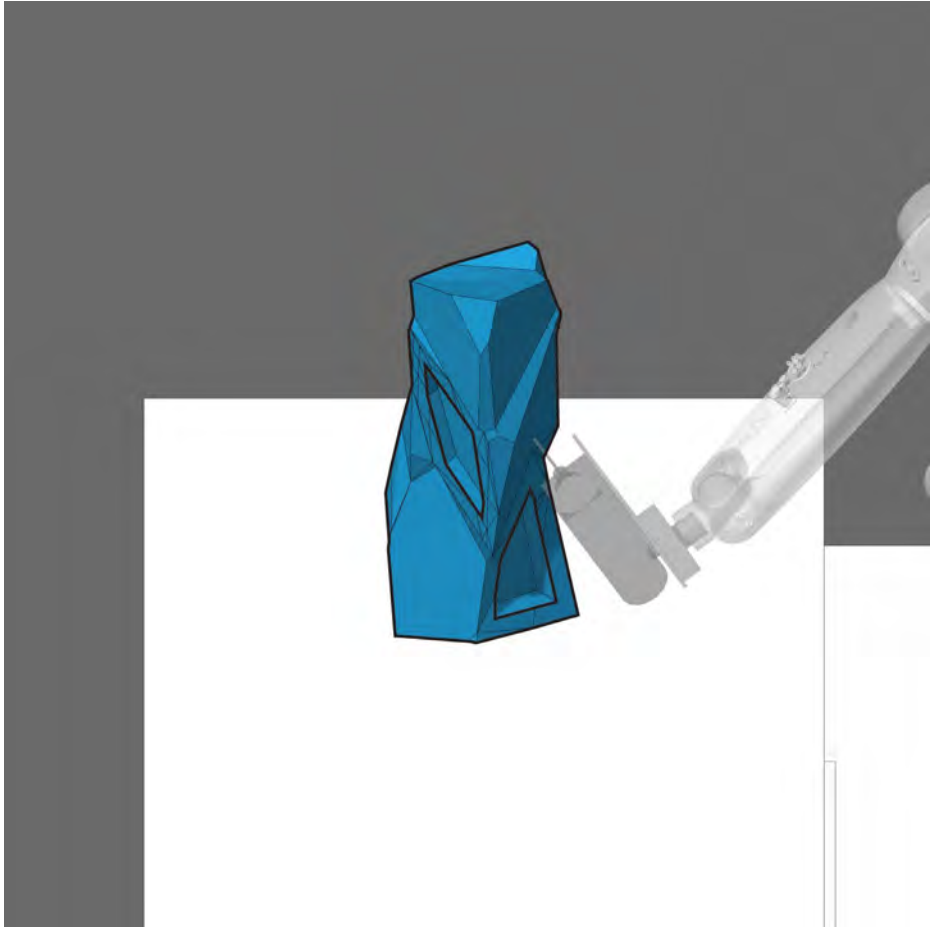
Fabrication: Holding Holes



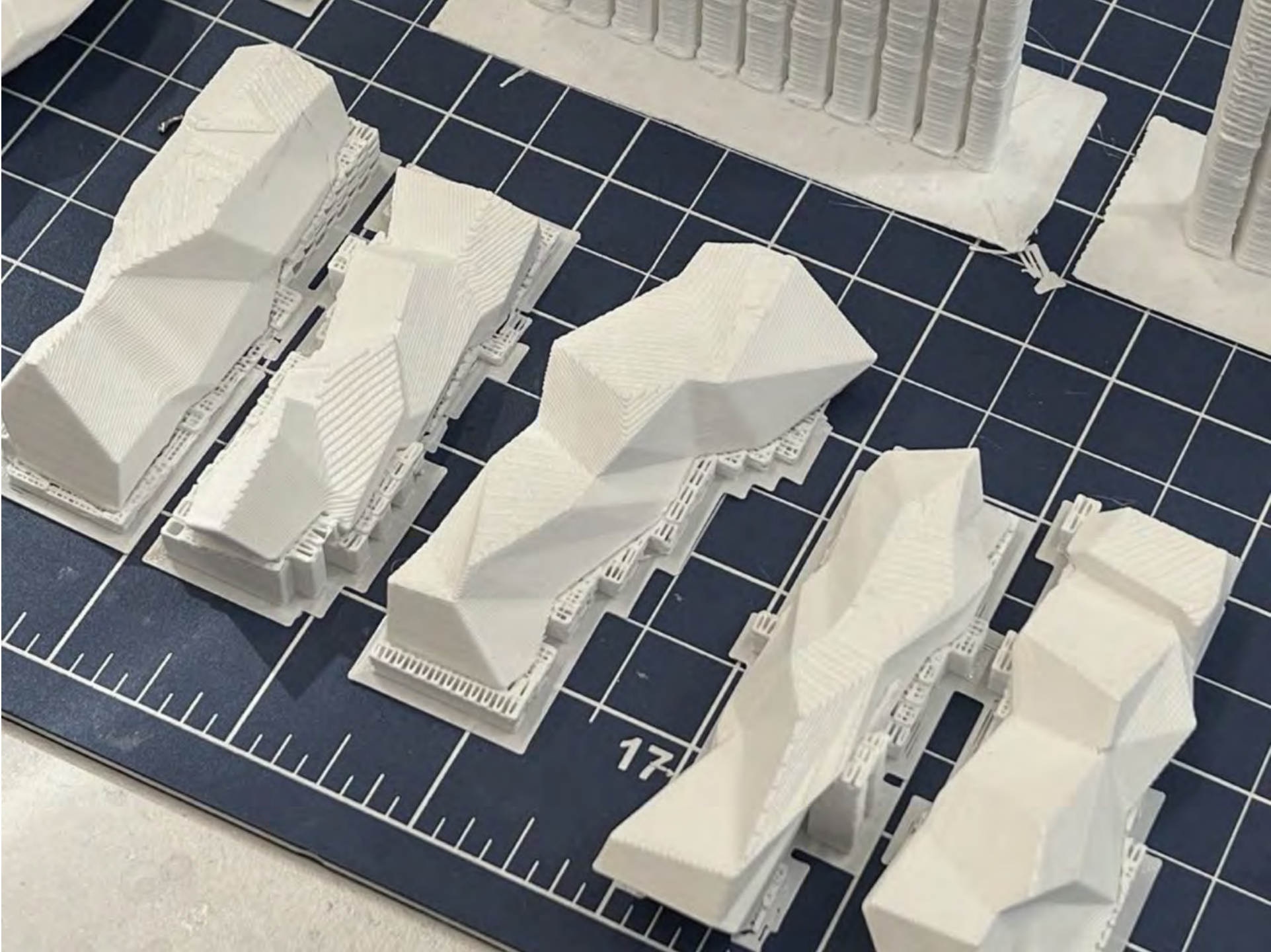
Fabrication: Top and Bottom



Fabrication: Finished Piece



Fabrication: 3D Print



Fabrication: 3D Print



3D Print Stacking



Video