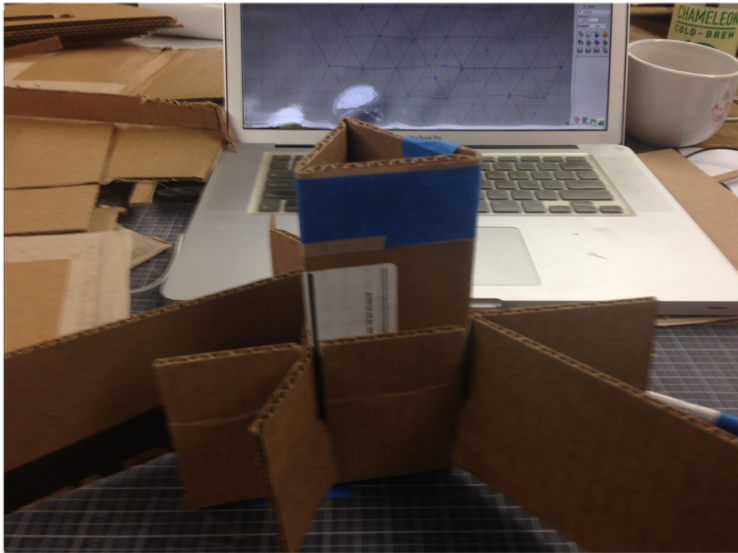


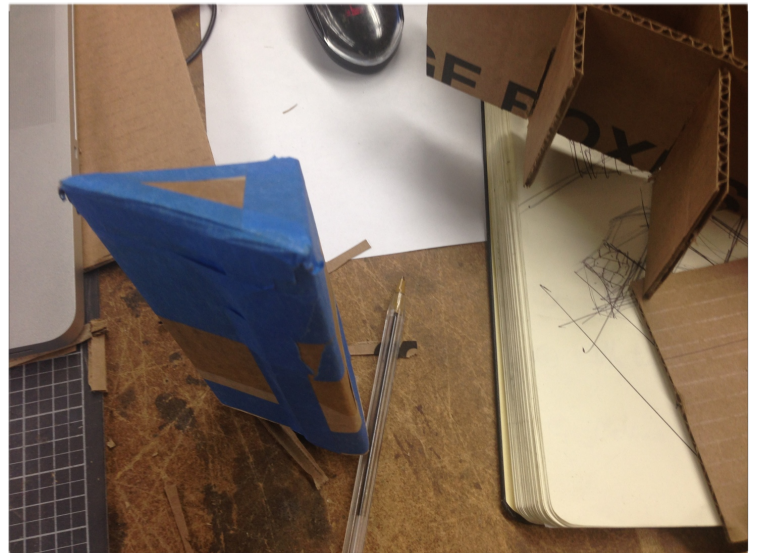
Cardboard Seating

Raviraj Pare
MS Product design 2013

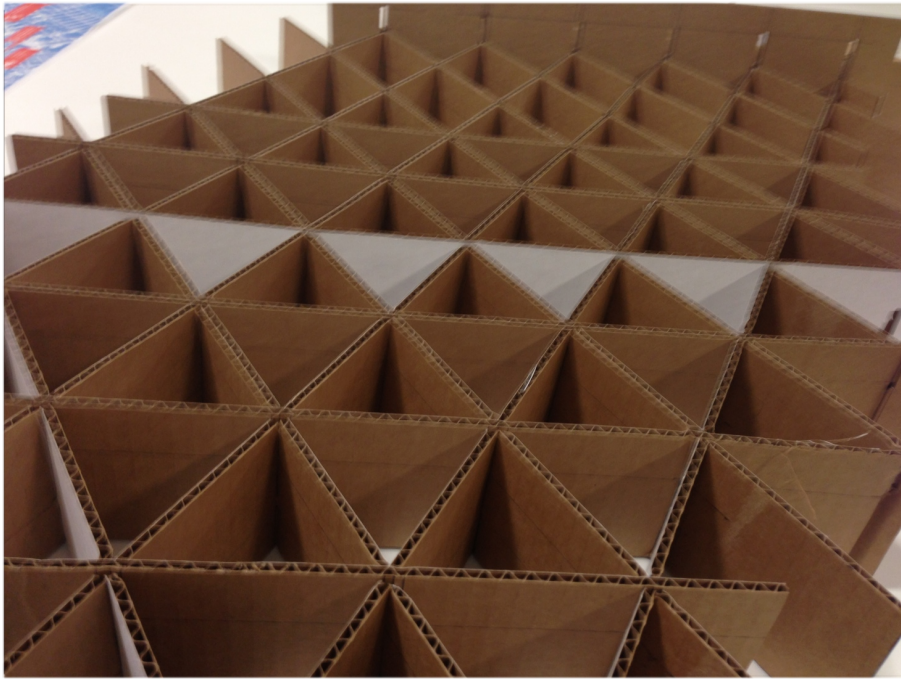


Fast CAD was made after initial sketching of modularity ideas. Different individual units were tested for ease of making, strength and capabilities to shape the surface.

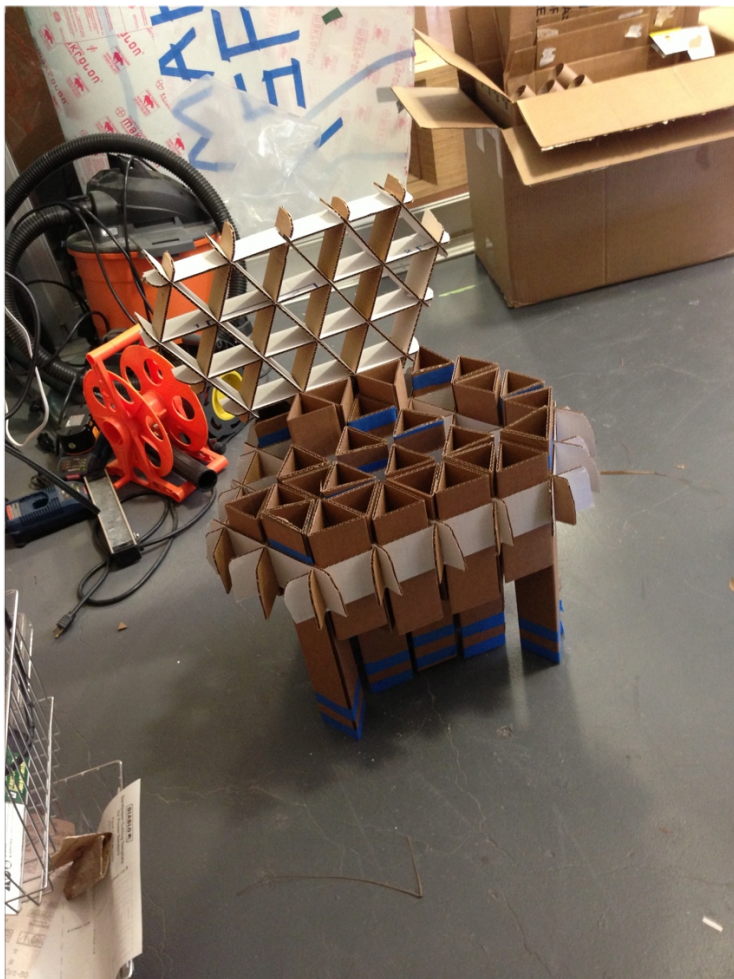
The individual units can move up and down in the grid.
The tolerances that can be had both in the grid and interlace was tested before making anything big.



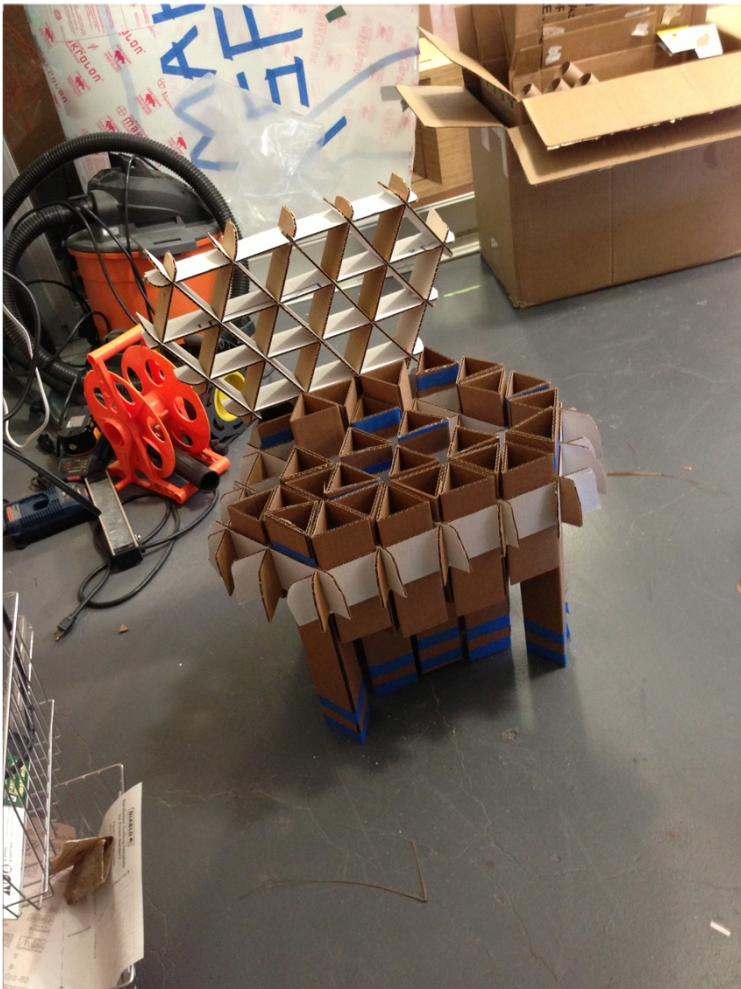
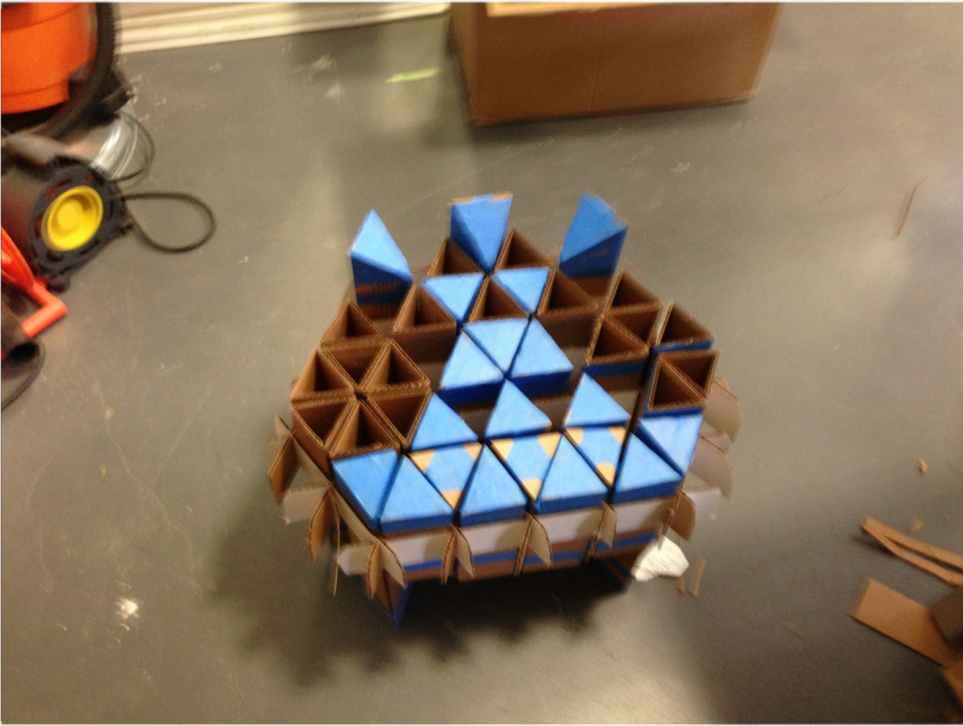
The interlacing of triangular grids will hold the triangular prisms in place and directs all the forces directly down it.



The interlace can be as big as you want and retains the size and integrity under load. The height was tested up-to 5 inches.



The initial thought process was to have no legs and back for '*the chair*'. I changed this later in the design process to make a chair with legs and a potential to have a back too.



the surface can be controlled by moving the units up and down. Not all the units can be moved as the structural prisms are spread around to take the weight.

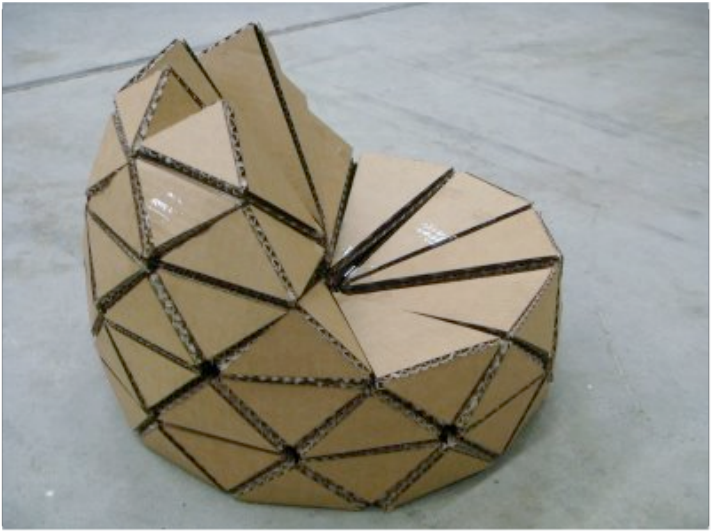




Modularity inspirations are all around us in nature. What is seeming complex shape, is made up of simple repetitive simple units

The Haifa Museum of Art





Using directional properties of cardboard, sculpted shapes are possible.



tractor seat chairs

