

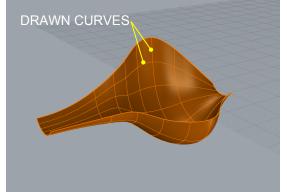


Original Chair by Bae Sehwa

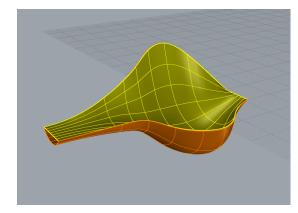
Chair Construction

Steps:

- Drew a series of curves to get the general shape of the chair, sized and scaled as needed. Lofted curves (I did this for both top and bottom "shells") FIGS. 1 AND 2
- Extracted isocurves from each surface in both U and V directions after rebuilding the surface with the divisions I thought were correct (Note: In previous iterations, I divided the surface as well) FIG. 3
- Extruded and Offset the curves to create the "slats" of the chair for both top and bottom layers FIG. 4









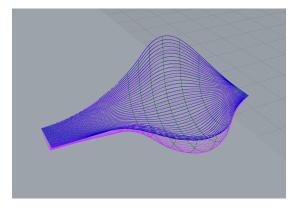


FIG. 2

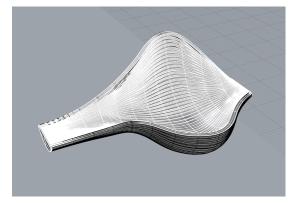


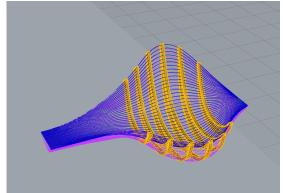
FIG. 3

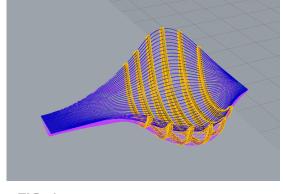
FIG. 4

Chair Construction

Steps:

- Extruded and Offset the supports between the shells and trimmed them off of the slats for the upper and lower shells FIG. 1
- Extruded isocurves, lofted them and Offset/Extruded the base and created the legs from lofted circles which were mirrored and adjusted to the base and trimmed off the base FIG. 2
- Drew a curve an extruded it to cap the ends FIG. 3
- **FINAL MODEL FIG. 4**





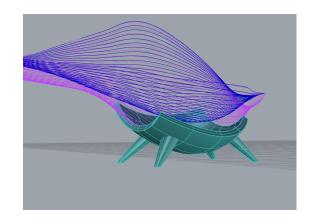


FIG. 1

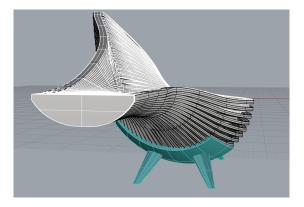


FIG. 2

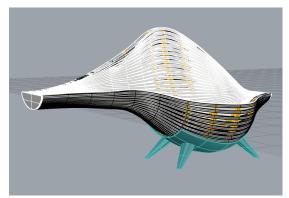
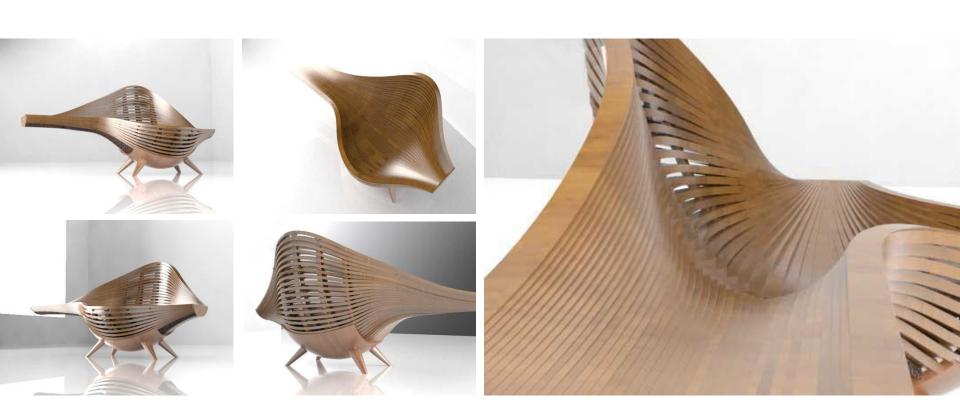
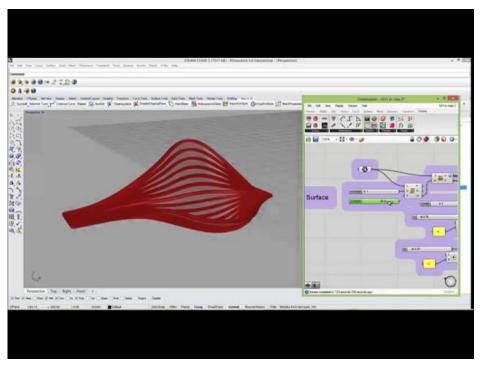


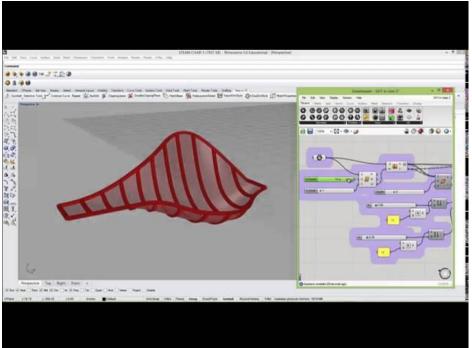
FIG. 3 FIG. 4



Final Renderings

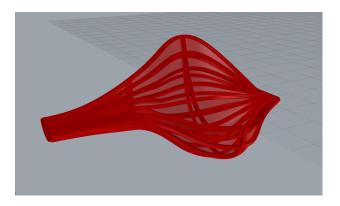
Design Driver 1: Changing the number of slats in U and V direction

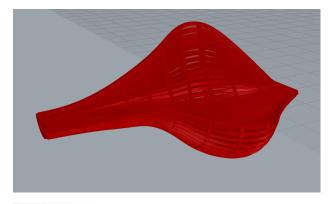




V Count U Count

Design Driver 1: Applied to Upper and Lower surfaces



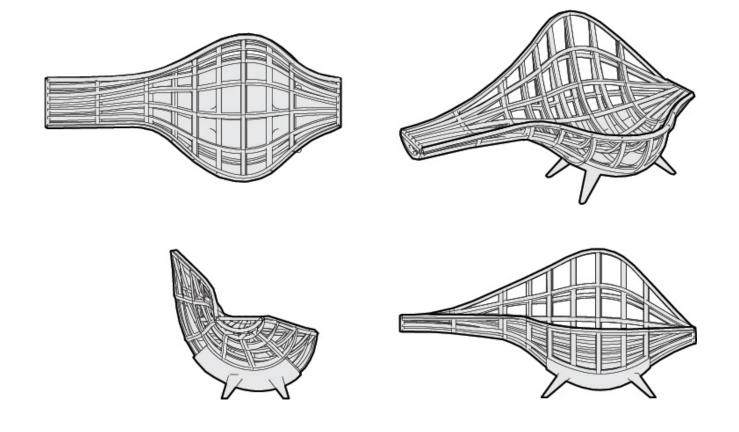




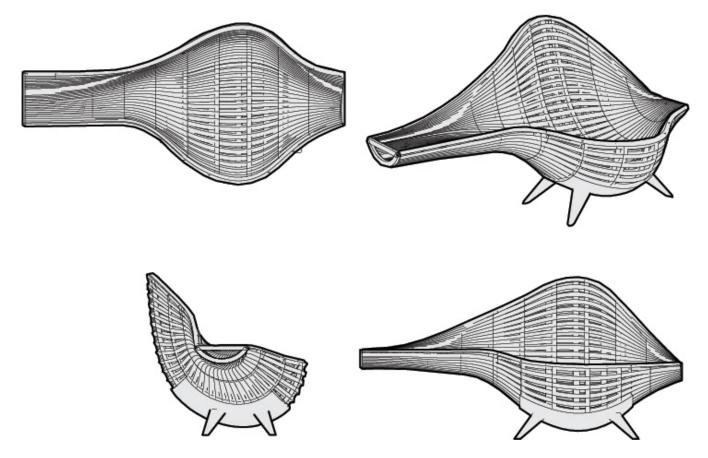


Less

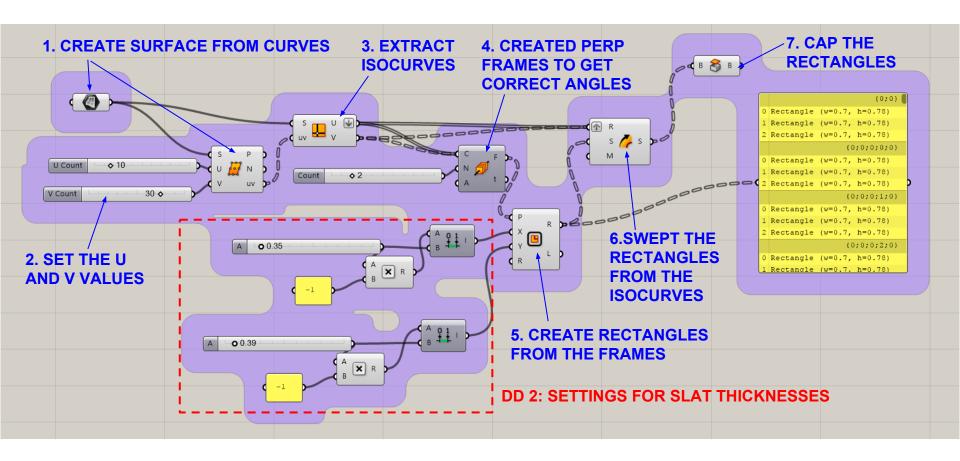
Design Driver 1: Drawings- Less Slats



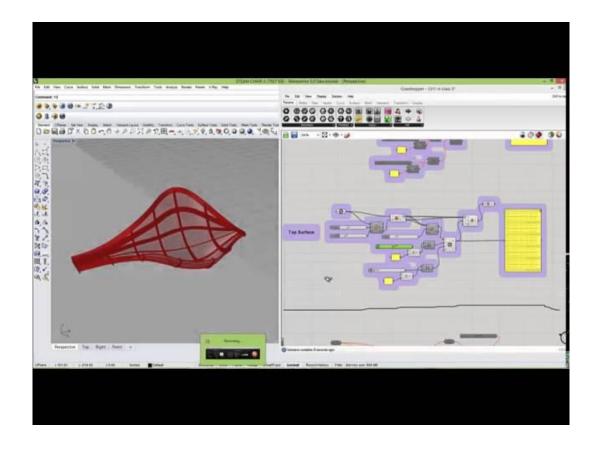
Design Driver 1: Drawings- More Slats



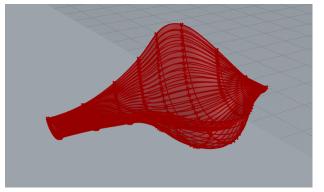
Design Driver 1: Grasshopper



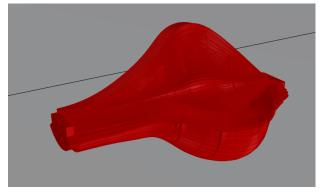
Design Driver 2: Changing the Thickness of Slats



Design Driver 2: Applied to Upper and Lower surfaces



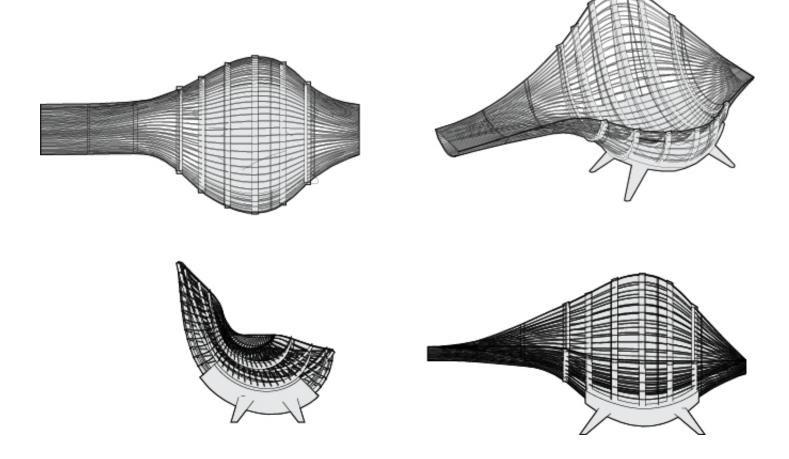




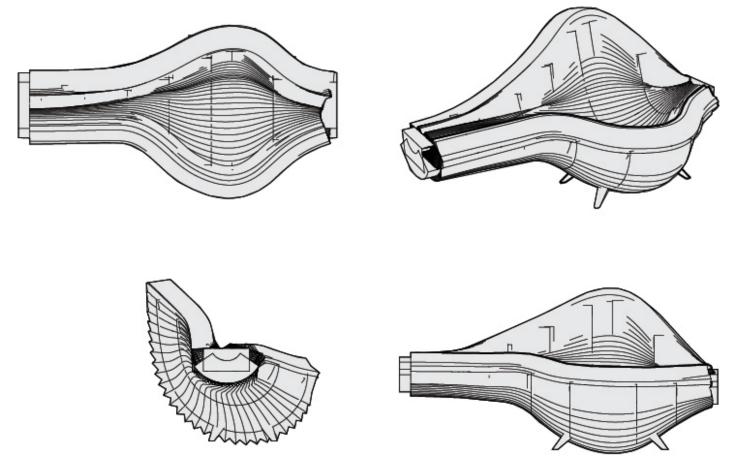


Thin Thick

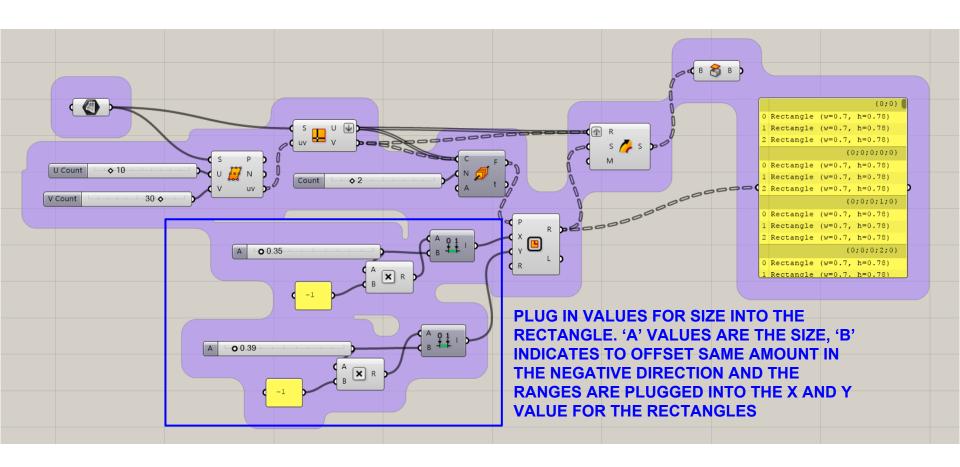
Design Driver 2: Drawings- Thin Slats



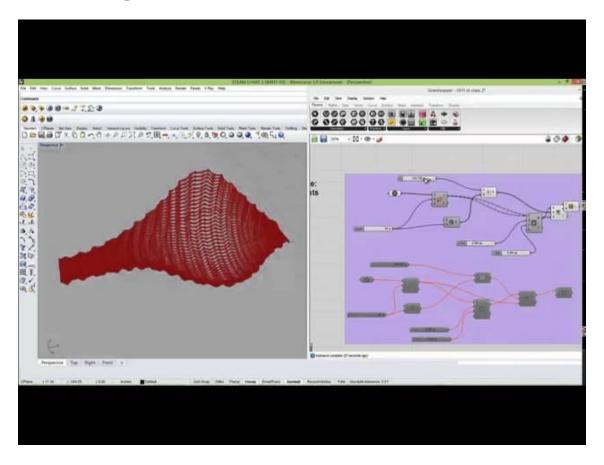
Design Driver 2: Drawings- Thick Slats



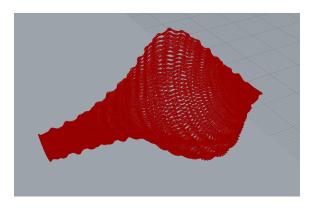
Design Driver 2: Grasshopper



Design Driver 3: Twisting the Slats



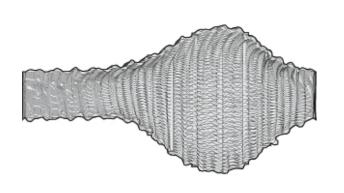
Design Driver 3: Applied to Upper and Lower surfaces

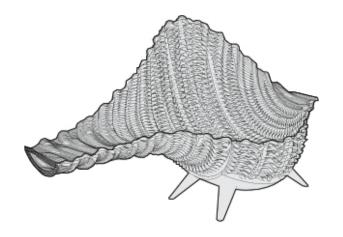




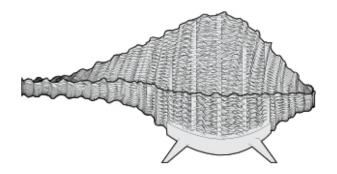


Design Driver 3: Drawings- Twisted Slats

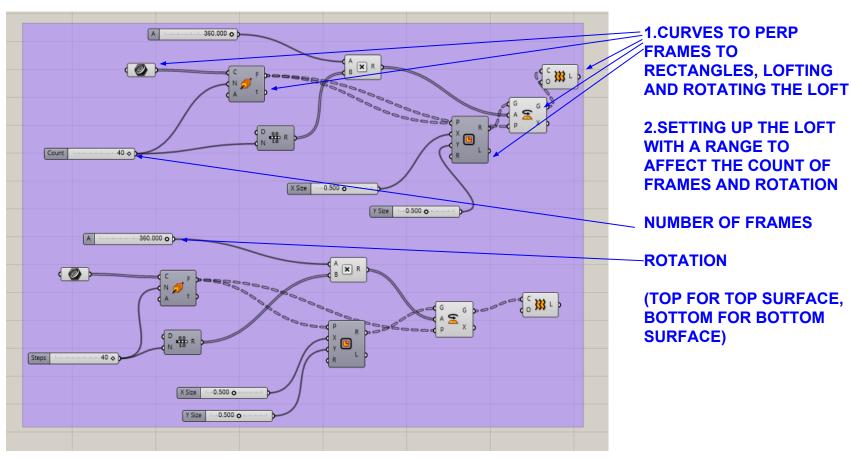




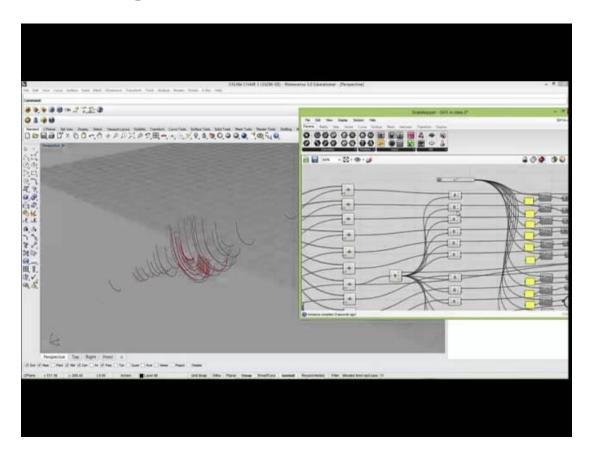




Design Driver 3: Grasshopper



Design Driver 4: Stretching the Chair--**FAIL**



Design Driver 4: Grasshopper

