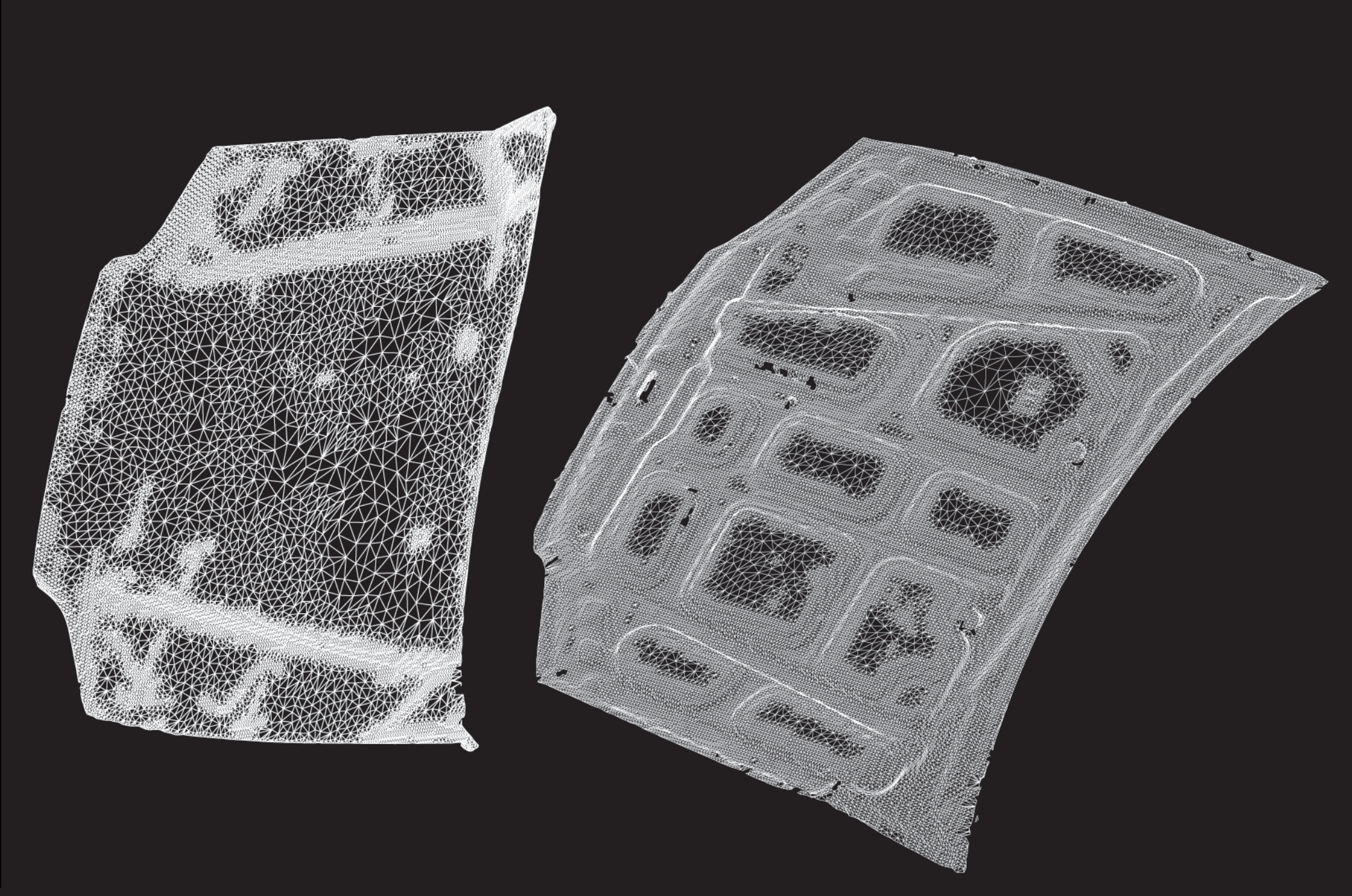
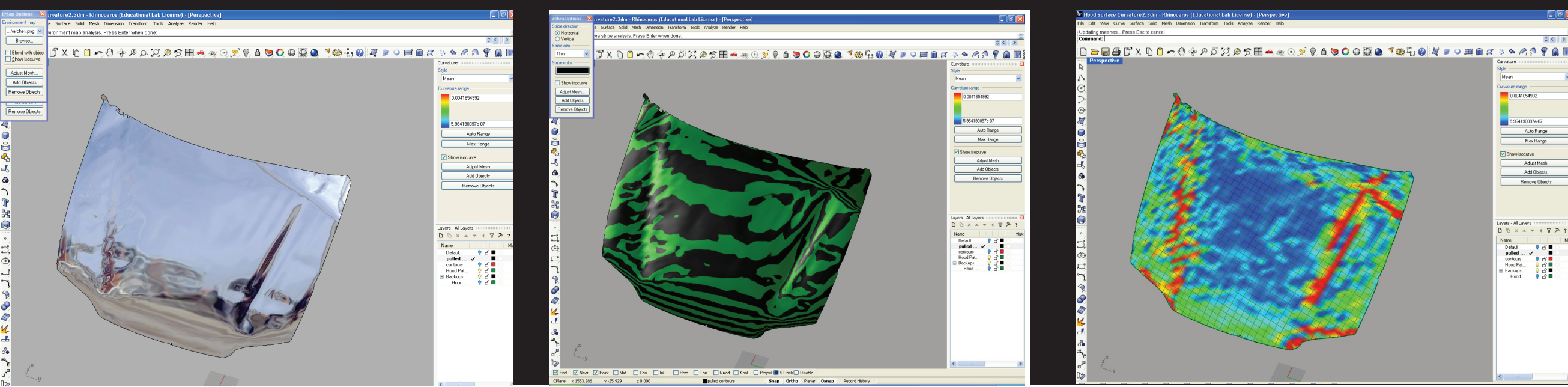


Digital Investigation

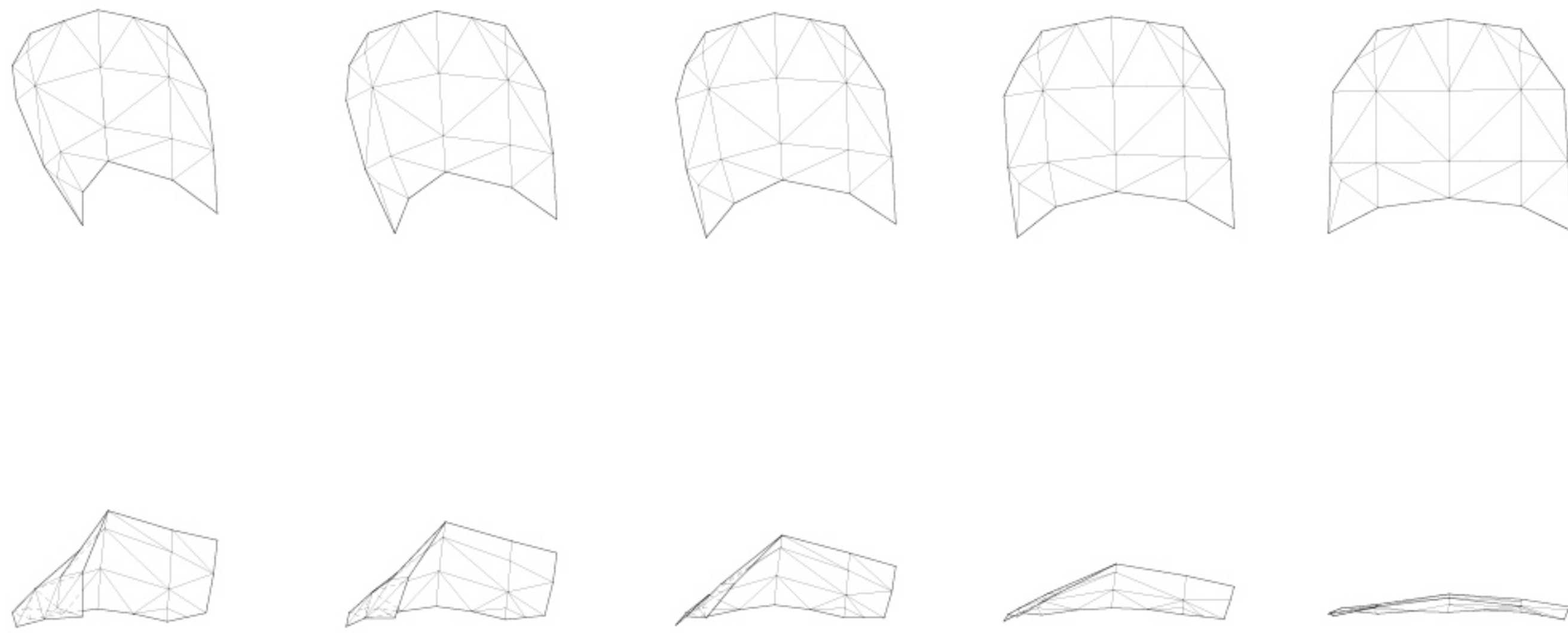


Dots were applied to surface of hood and scanned using a 3D digitizer. These points were then connected in a 3D modeling program to create a wireframe mesh. (shown to the left)

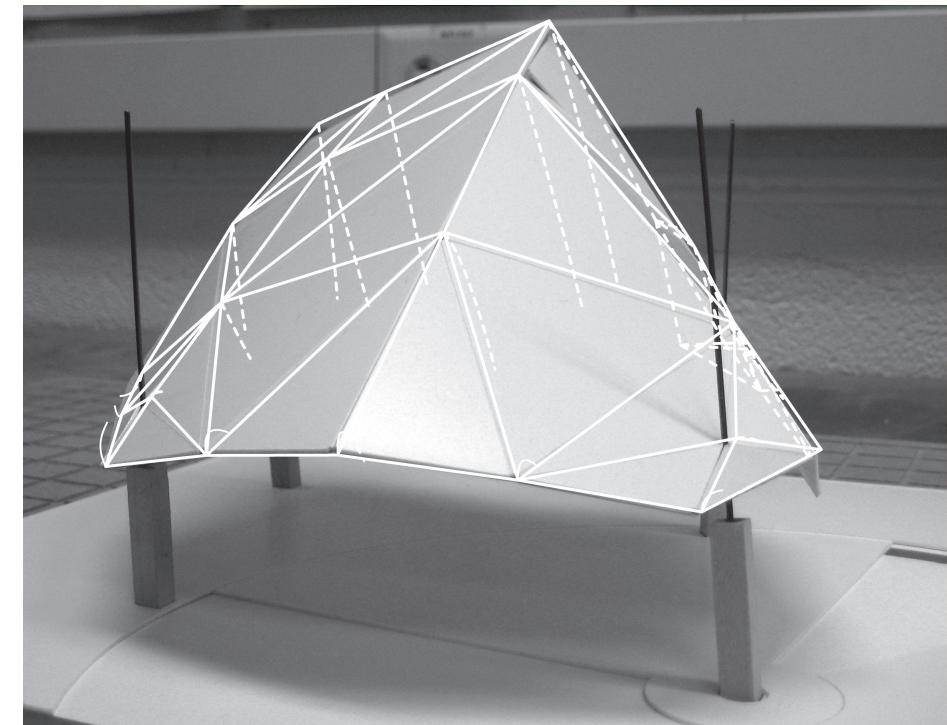


Images to the left are screenshots taken from Rhino 4 3-D modeling program. An analysis was performed to examine surface curvature. Each type indicates one way and two way curvature through coloration and geometrical mapping.

BEHAVIORAL MODELING - 5 STAGES OF BENDING



(Right) Physical hood was simplified to triangulated surface. This surface was digitized, then fabricated by laser cutting polystyrene. This scale model mimics the motion tendencies of the original physical hood.



(Right) Location of bolts indicate points of triangle used to translate physical hood into digital modeling software.

SHADING STUDY - HOOD TESSELLATION WITH GRADUATED BENDING

