

GEOMETRIC STRUCTURES

BY ANDREA MATO

YELLOW FLUORESCENT AND AMBER TRANSPARENT
ACRYLIC WITH YELLOW AND ORANGE SUEDE LACE

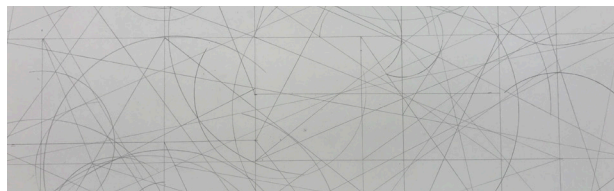
PHASE I

With the instructions given in class, I created a compass that follows the Golden Section rules out of four wood sticks. I used recycled wood from the Parsons' wood shop. I cut the wood and connected the pieces with dowels of 1/8 inch.



PHASE II

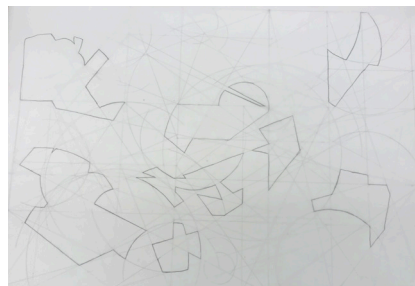
Afterward, I took the Golden Section compass and drew on a piece of Bristol paper of 18 by 24 inches lines that followed the measurements of the compass.



To do this, I opened the compass in different parts of the page and made straight lines from there. When I began to have a significant number of lines, I worked with diagonal lines. Then, I added circles with a small compass in my drawing.

PHASE III

When I had the drawing ready, put a sheet of tracing paper on top of it, and drew shapes that I found interesting.



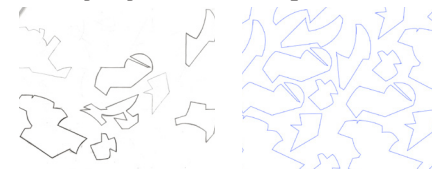
PHASE IV

I then traced those shapes on another piece of Bristol paper and cut them. With the shapes cut, I thought how to create a sculpture with this two-dimensional shapes. I taped the pieces in different ways to figure out which was my favorite composition.



PHASE V

Consequently, I passed the drawings of the shapes to illustrator by scanning them. After this, I pen tooled each shape and thought of different ways of arranging them in my document.



Then, I made sure my document was in the RGB format, and that my shapes were 255 blue with 0.01 so they could be compatible with the laser cutter.

PHASE VI



Succeeding, I went to Canals Plastics in Chinatown and found the acrylic sheets that I used for my piece.

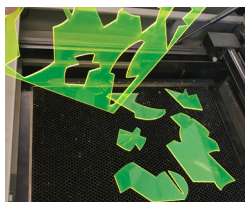
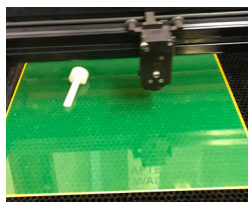
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PHASE VII

With my laser sheets, I went to the laser lab and cut my five pieces two times, one with the yellow fluorescent acrylic sheet, and the other with the amber one. The technicians did not permit me to cut on my third piece of acrylic sheet because it was a one-sided mirror. To laser cut, I followed the procedures of the lab like changing the settings of the material that you are using or making sure there is ventilation on the machine I will use.



PHASE VIII



I thought once again of ways of putting them all together. I decided to go to Michaels where I bought suede lace that came in opaque green, yellow, and orange. I felt this material would give the piece a more organic and clean feel than any metal.

PHASE IX

Finally, I measured where I wanted to open holes to connect my pieces with the suede lace. The holes were all half an inch of distance from the other and were strategically placed to connect the pieces the way I wanted them to be, and to create a second layer in my design. I used only the orange and the yellow suede lace.



FINAL PRODUCT

