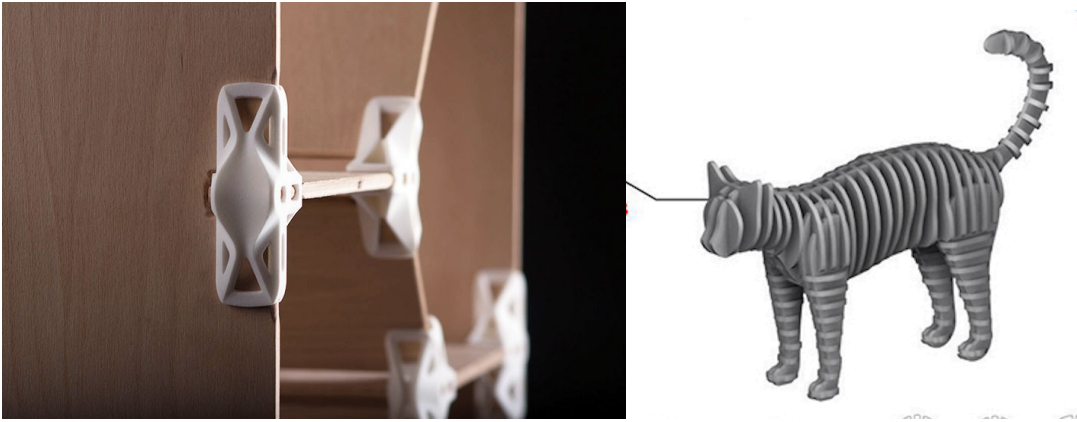


Project 3: The Puzzle Lab



Objective: Work individually to create a 3D figure out of a custom-built system.

Part 1: Joinery Lab

Design a custom 3D printed joint that will connect pieces of cardboard together. 3D print and assemble a sample of your joinery.

You cannot use glue. Connect at least 3 pieces of cardboard together with your sample joint.

Due Oct 23.

Part 2: Imagine/Build

1. Choose a figure or object to build.
2. Using your joinery from Part 1 as a foundation, design a set of cardboard pieces to make up the figure.
3. Lasercut your cardboard pieces. 3D print your joint.
4. Assemble your figure.

You cannot use glue.

The finished piece must be between 1/2 to 1 cubic foot in scale.

Things to Consider:

Measure the thickness of your cardboard.

Consider using some of the folding techniques we have covered in class, keeping in mind the translation to corrugated material.

Use abstraction for the cardboard pieces to make production more efficient.

Due Tue Nov 6

Milestones:

1. Part 1 Joinery Sample – Due T Oct 23
2. Digital File Check – Due Th Oct 25
3. Final Puzzle Due – T Nov 1