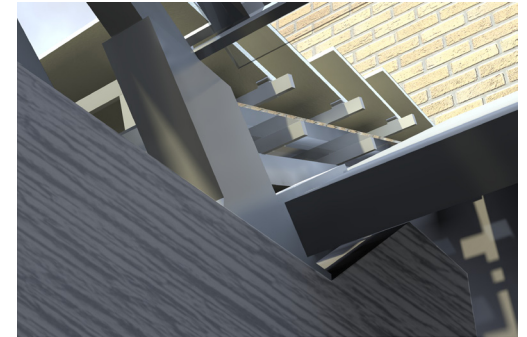




# Bike Pavilion

Junior Year 1st Semester Prof. Hoffman

The Bike Pavilion is located next to a commercial building and it was proposed to support alternative transportation and earn LEED points. This design continued with the LEED guidelines. It has a rain collecting system which flows down through the roof system that also collects light with its light shelves and directs the light towards the middle of the space. The concept of the building is carving and coming from the earth. The main structure walls which hold the connections for the roof are meant to look as though they were carved from the ground. Within the structure walls the connections for the roof lay in the carvings of the actual structure walls.

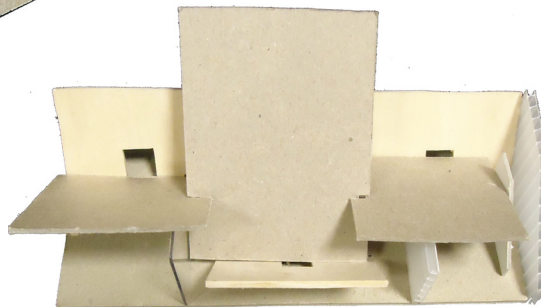
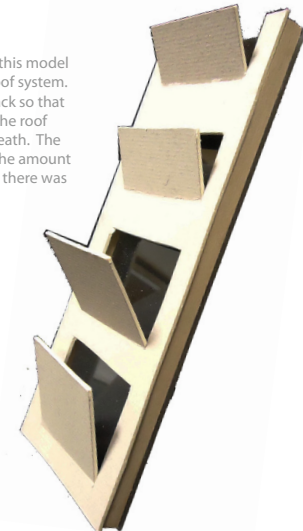


## Connection to the Ground

All pieces of this first process model are connected only by grooves made in the wood. No glue was used at all to hold this model together which allowed for the structure of the final model to be created. The base acts as the ground, allowing the main piece to hold up the other parts. The string was used for tension to hold up a cantilevering object.

## Light Through Roof

Once the structure was created this model was the start of figuring out a roof system. The light shelves were pulled back so that light could enter the middle of the roof system, which has glass underneath. The light shelves helped to control the amount of light entering the building so there was limited glare.



## Roof Process

The connection used that secures the walls to the ground also influenced the connection between each roof. The building consists of three bays and each bay has a butterfly roof with one side of the roof being solid and the other more filigree. In this model the roofs are directly connected to the ground but this left unusable space so in the final model the four main walls of the building are meant to look like they came from the ground and the roofs are connected at the tops of the walls.