MIT OpenCourseWare http://ocw.mit.edu

4.510 Digital Design Fabrication Fall 2008

For information about citing these materials or our Terms of Use, visit: http://ocw.mit.edu/terms.



#### Site Consideration

My first reaction when visiting the site is that it's lack of greenery and a sense of public space. As the area where cultural facilities located, this harbor responsible in providing a convenient public space as a transitional space from the water to the land. This design aim to create a seamless transition as it provides the dock not just as a platform for embarkation but also as a floating garden.







# Element & Component







Variant #1





Variant #2





Variant #3







View from water taxi



Ambiance



# Levelling for different height of boat





## First attempt on 3D printing [Failed]

The model was done with minimum 2 mm thickness. However, it was converted in a wrong way when opened in RPL machine. The thickness become less than 2 mm.



3D print result



#### Second attempt

To anticipate the conversion, dimension of the model was thicken larger than its origin dimension. The roof became 4mm (origin was 2.5mm) and the column diameter became 3 mm (used to be 2 mm)

Aerial View



View on the shelter area



View on the floating garden area



View on the wall panel

Ambiance



## 3D Print result















#### Various Combination of the Floating Garden

Inspired by the Tangram Pattern, the floating garden is meant to be an active garden and provide a green space for the Boston inner-harbor area which has lack of greenery. These dynamic arrangements emphasizes the kinetic quality of the station to gives an ever-changing sense of arrival and departure at the same time.

Loop Pattern















