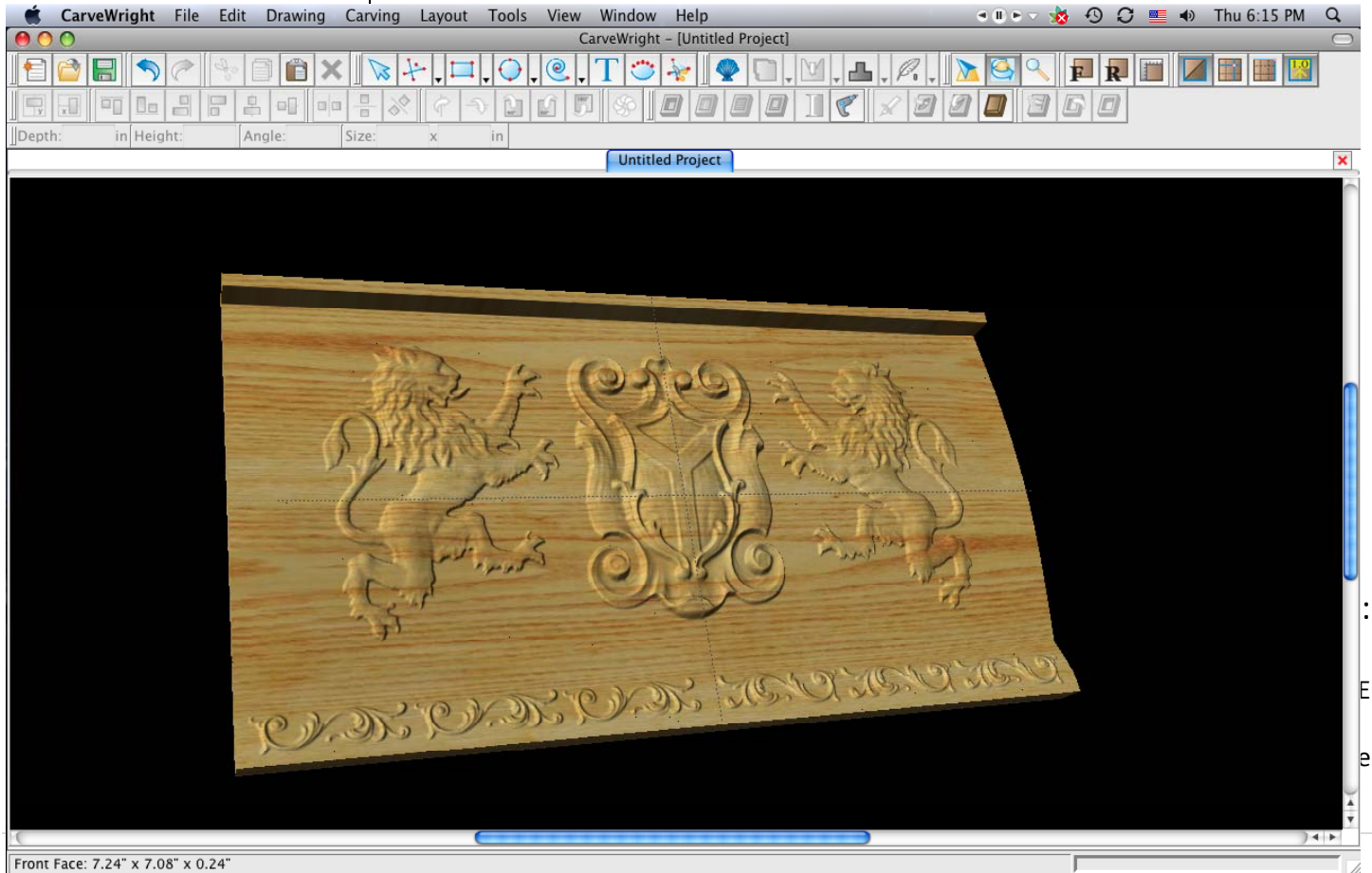


Design Project 5

This project covers the following design concepts:

- DRAWING TOOLS
- REGIONS
- SURFACES
- ADJUSTING DEPTH & HEIGHT
- CONSTRAINTS & ATTACHMENTS
- CARVING LIST
- MERGE
- MANAGING DATA
- UPLOADING TO MEMORY CARD



The Welcome screen appears with project options.



Select “New Project”

Set your board piece dimensions.

Length: 14”

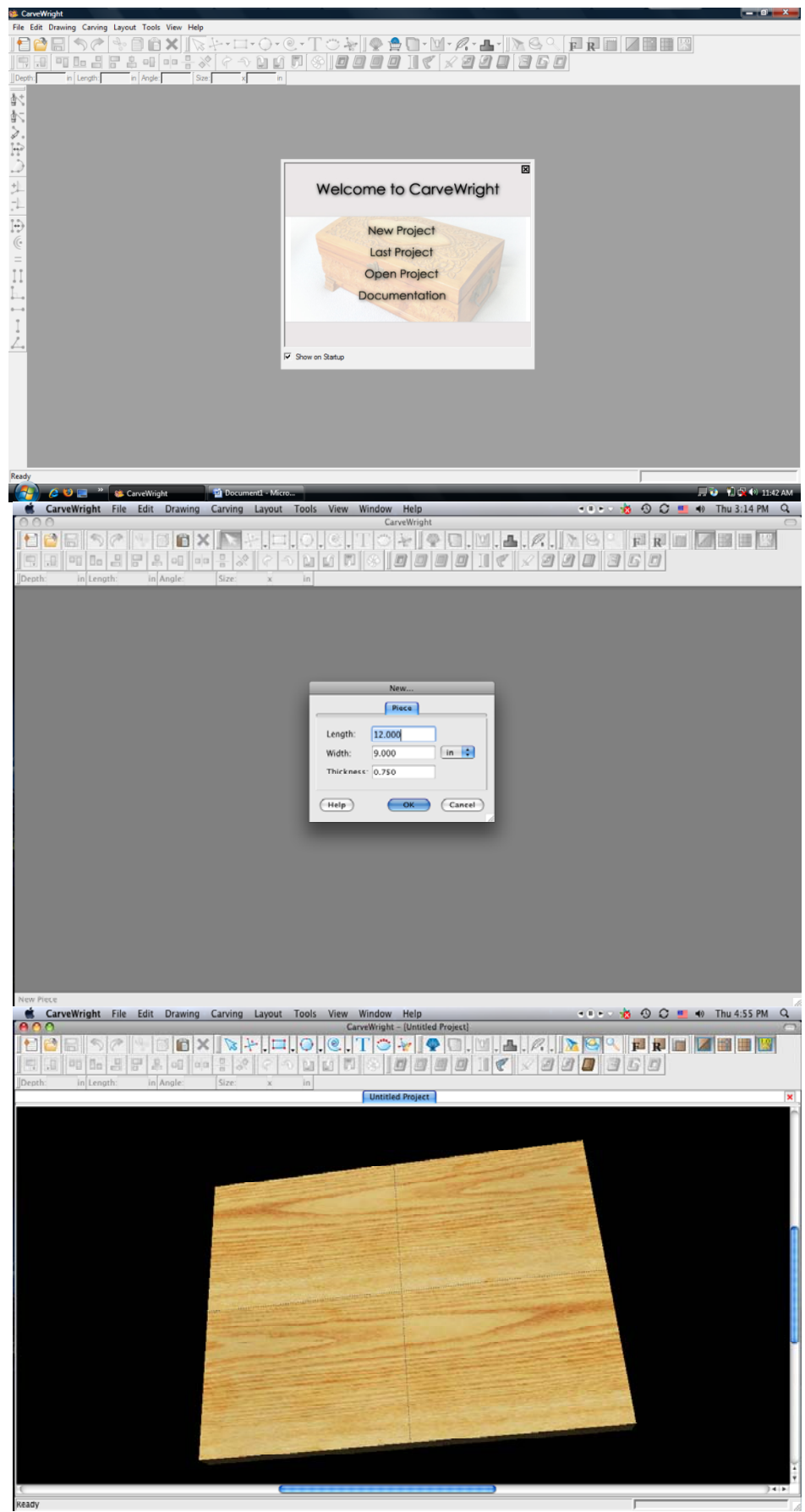
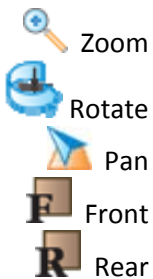
Width: 7.5”

Thickness: .75”

Click ok

➤ MANIPULATING THE WORKPIECE

Board piece will display on screen in three dimensions.



➤ DRAWING TOOLS



Select the “Rectangle Tool”.

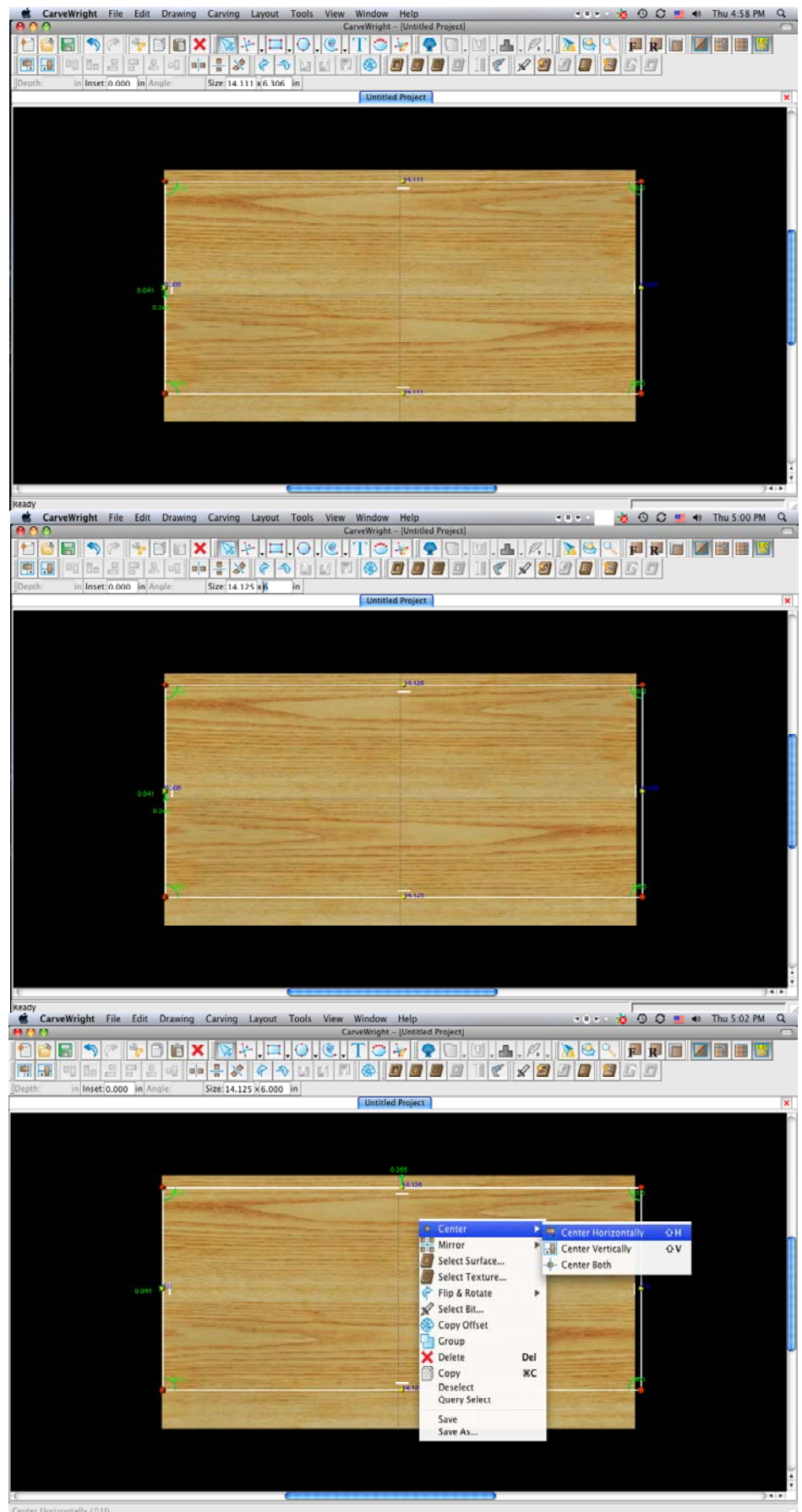
Draw Rectangle across the entire board, as shown.

Set size of rectangle to
Width: “14.125 inch”
Height: “6 inch”

➤ CENTERING



Right Click and select
“Center”, “Center
Horizontally”



➤ SURFACES

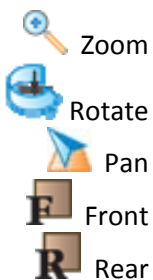


Use Select Surface Tool and choose “Domes” & “Vertical Dome”

➤ ADJUSTING THE HEIGHT & DEPTH

With the rectangular region selected, change the depth to “.5” and the height to “999”.

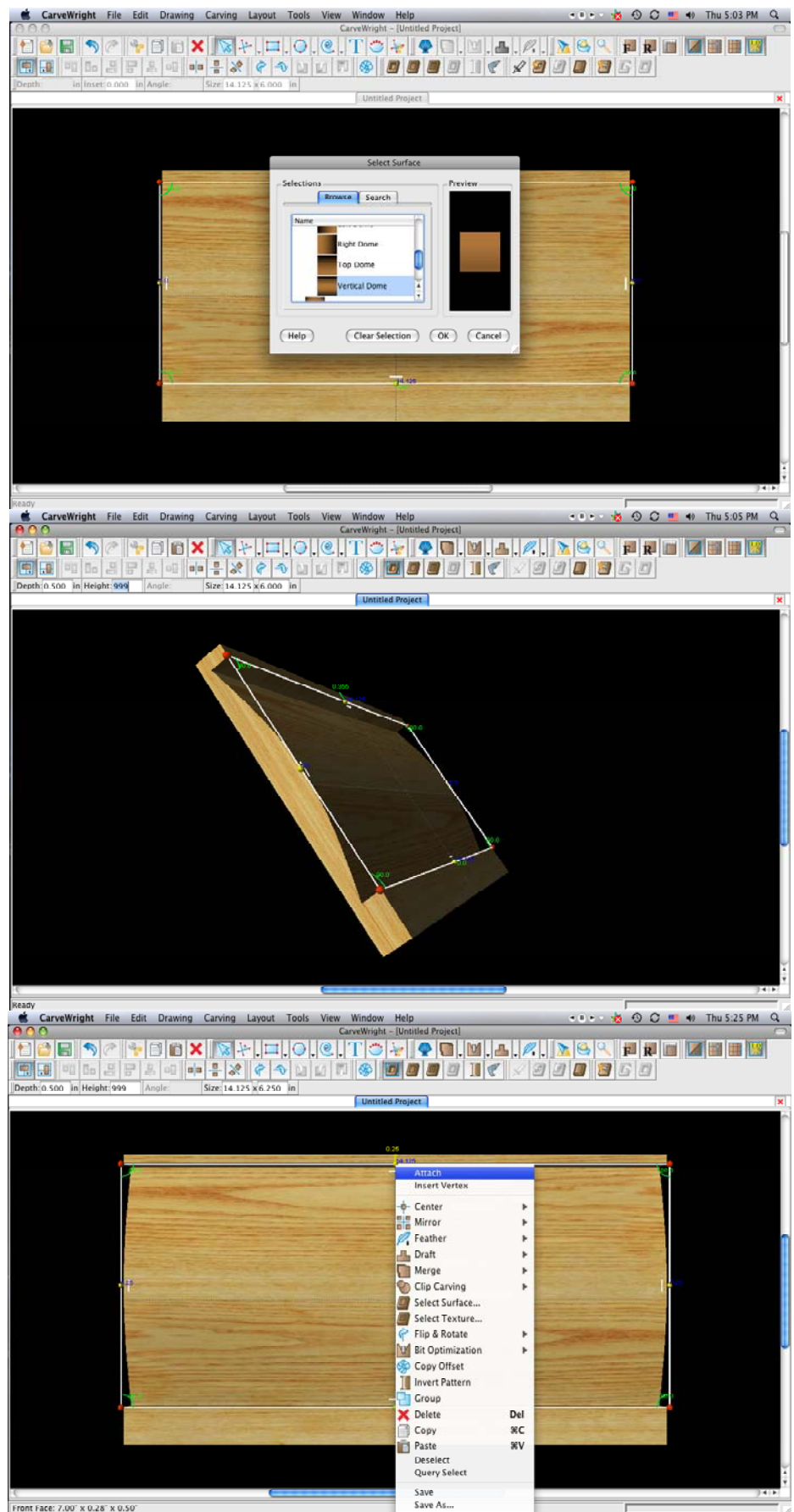
➤ MANIPULATING THE WORKPIECE



You will see the curve become much more defined if you rotate it and look from a side angle.

➤ CONSTRAINTS & ATTACHMENTS

Right Click the Yellow Node at the top of the rectangle and choose attach.



Attach it to the top edge of the board and type in “.25”. This locks the rectangle in place at a ¼ inch from the top border.

➤ DRAWING TOOLS

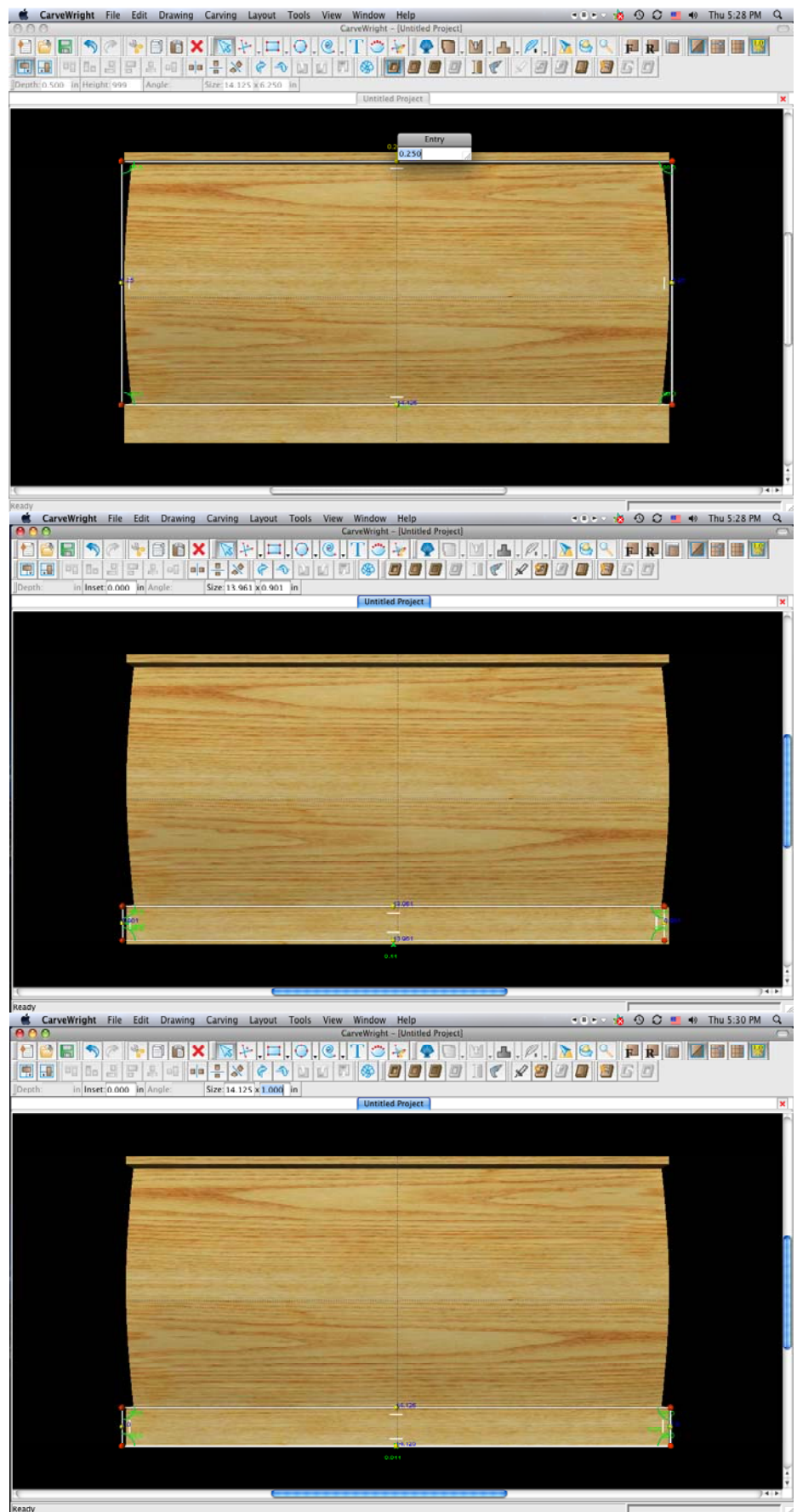


Select the “Rectangle Tool”.

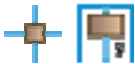
Select rectangle tool again and draw another rectangle along the bottom of the board.

➤ CONSTRAINTS & ATTACHMENTS

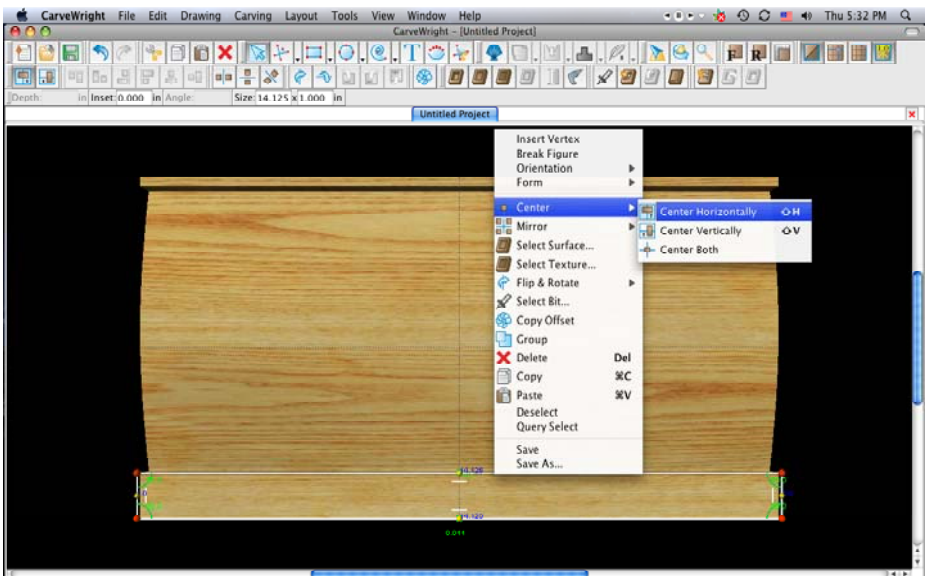
Set the dimensions to “14.125 inch x 1 inch”



➤ CENTERING

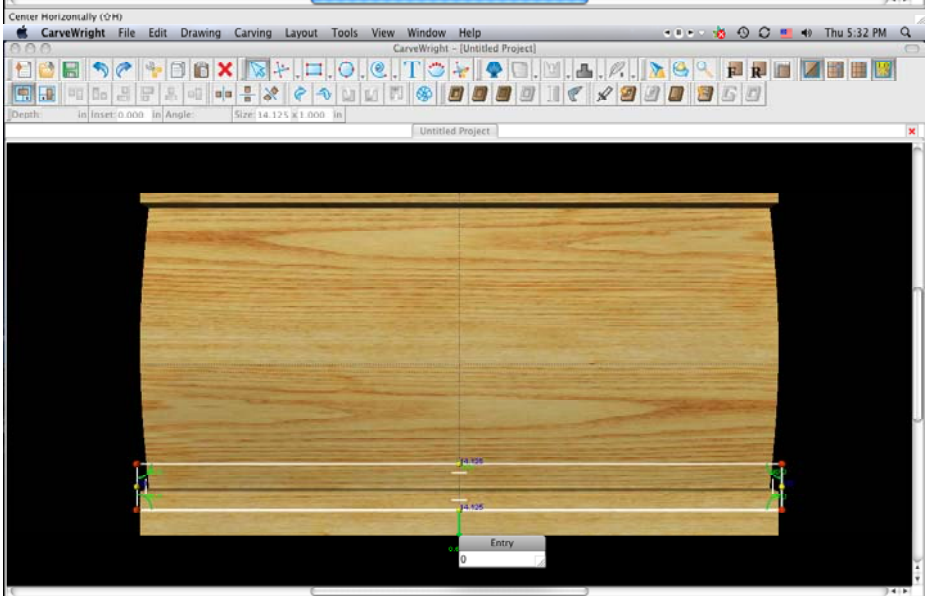


Right Click and select
“Center”, “Center
Horizontally”



➤ CONSTRAINTS & ATTACHMENTS

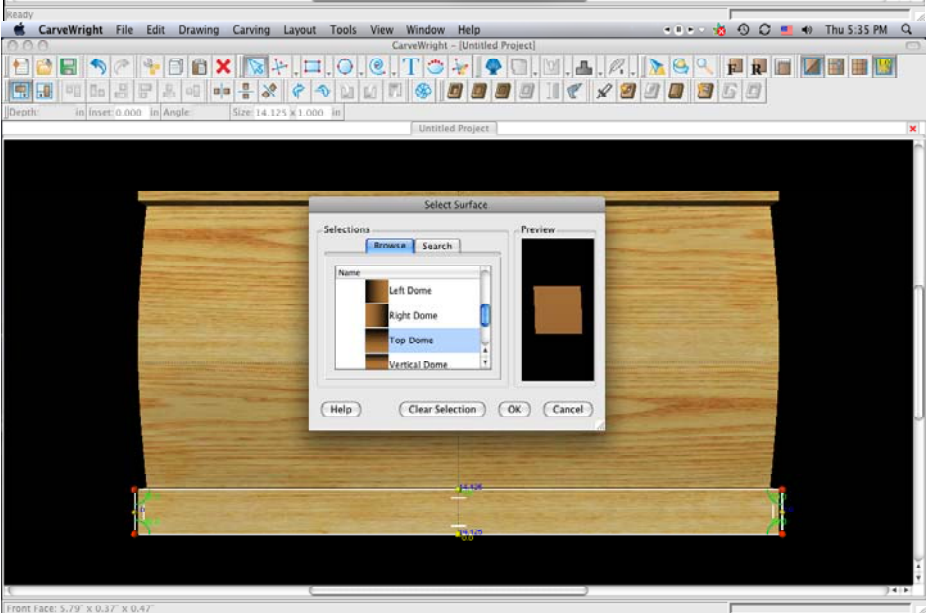
Attach the box to the
bottom edge of the board
by setting the distance to
“0”.



➤ SURFACES

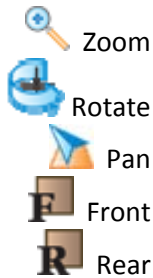


Choose Select Surface and
select Top Dome under
Domes.



Change the depth to .5”
and the depth to 999.

➤ MANIPULATING THE WORKPIECE



Again you can see how this
changes the contour from a
side angle.

➤ PATTERN PLACEMENT

Select the “pattern
tool” to open the pattern
library along the right side.

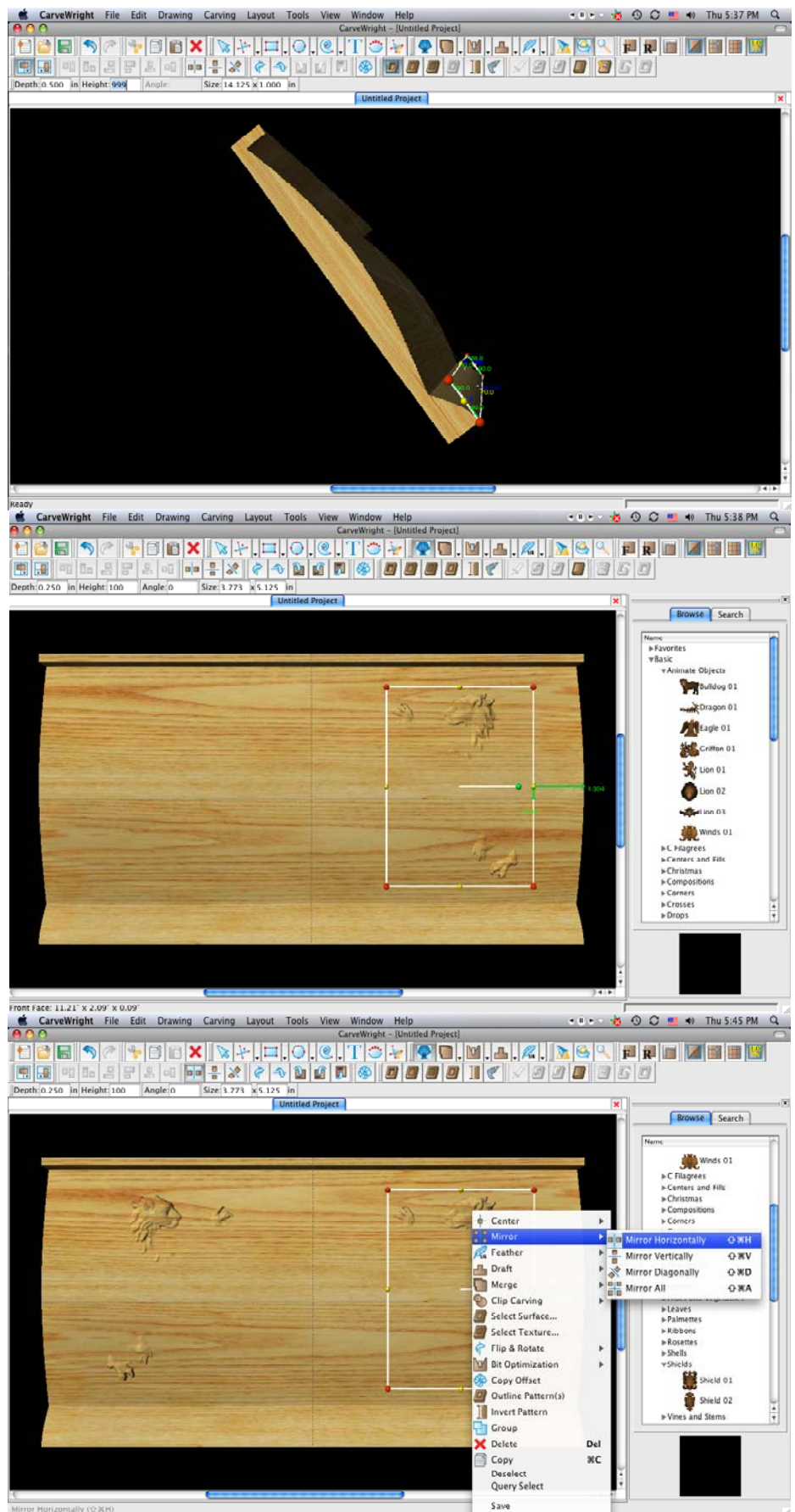
Select “Lion01” under
“Animate Objects” and
place on board by clicking
or drag & drop.

Size to fit within the bigger
rectangle dome.

➤ MIRROR



Right click on the hole and
select “Mirror”, “Mirror
Horizontally”.



Note: The patterns are not showing up all the way. We need to fix this by using our merging tools. Select the Carving list under View on the top menu bar.

➤ CARVING LIST



Select “View” and then “Carving List”

➤ MERGE



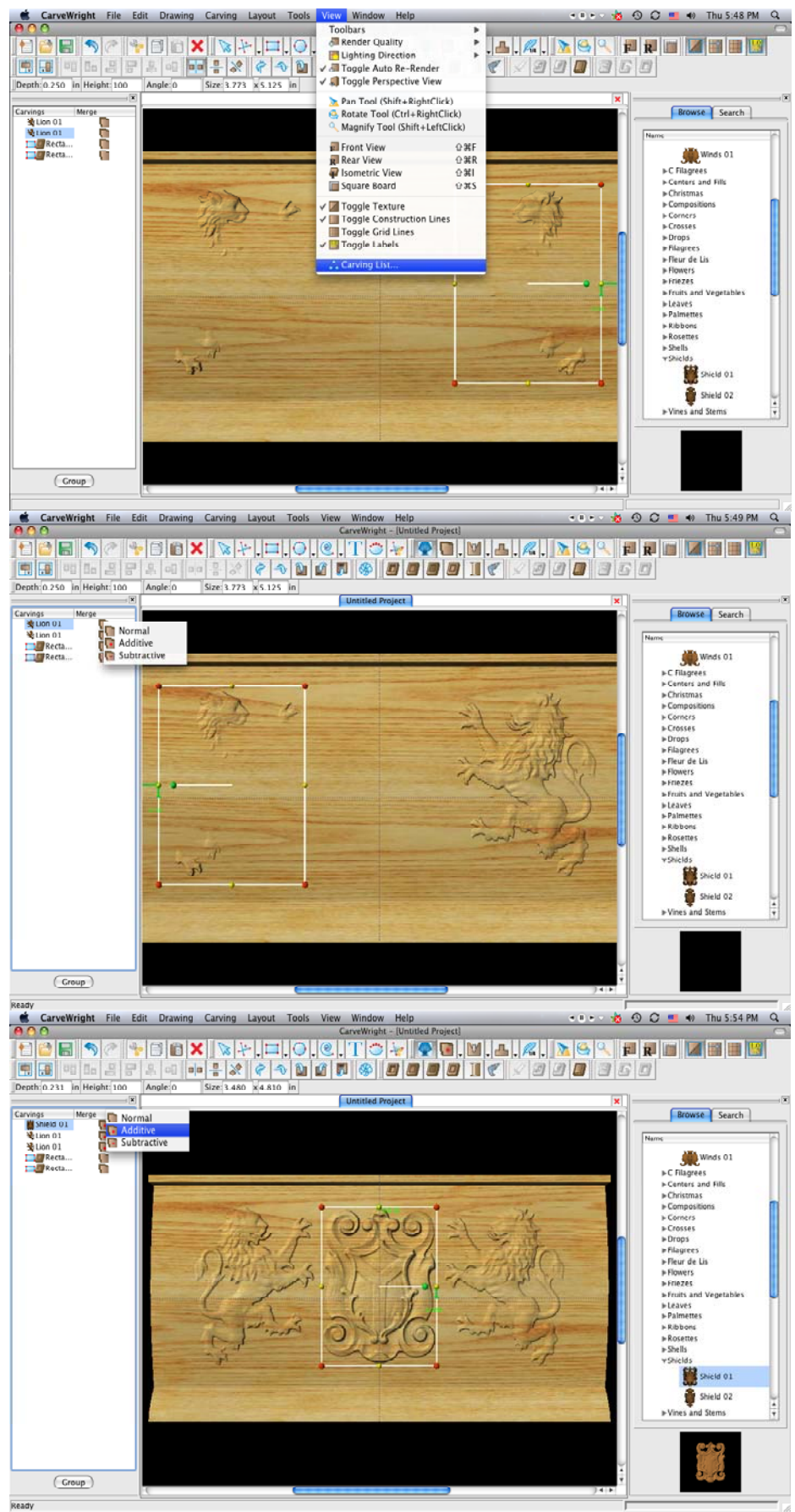
Select the “Lion” patterns in the carving list. Click on the merge style and select Additive.



➤ PATTERN PLACEMENT



Select “Shield01” under “Shields” and place in the middle of the board.



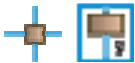
➤ MERGE



Select the “Shield” pattern in the carving list. Click on the merge style and select Additive.



➤ CENTERING



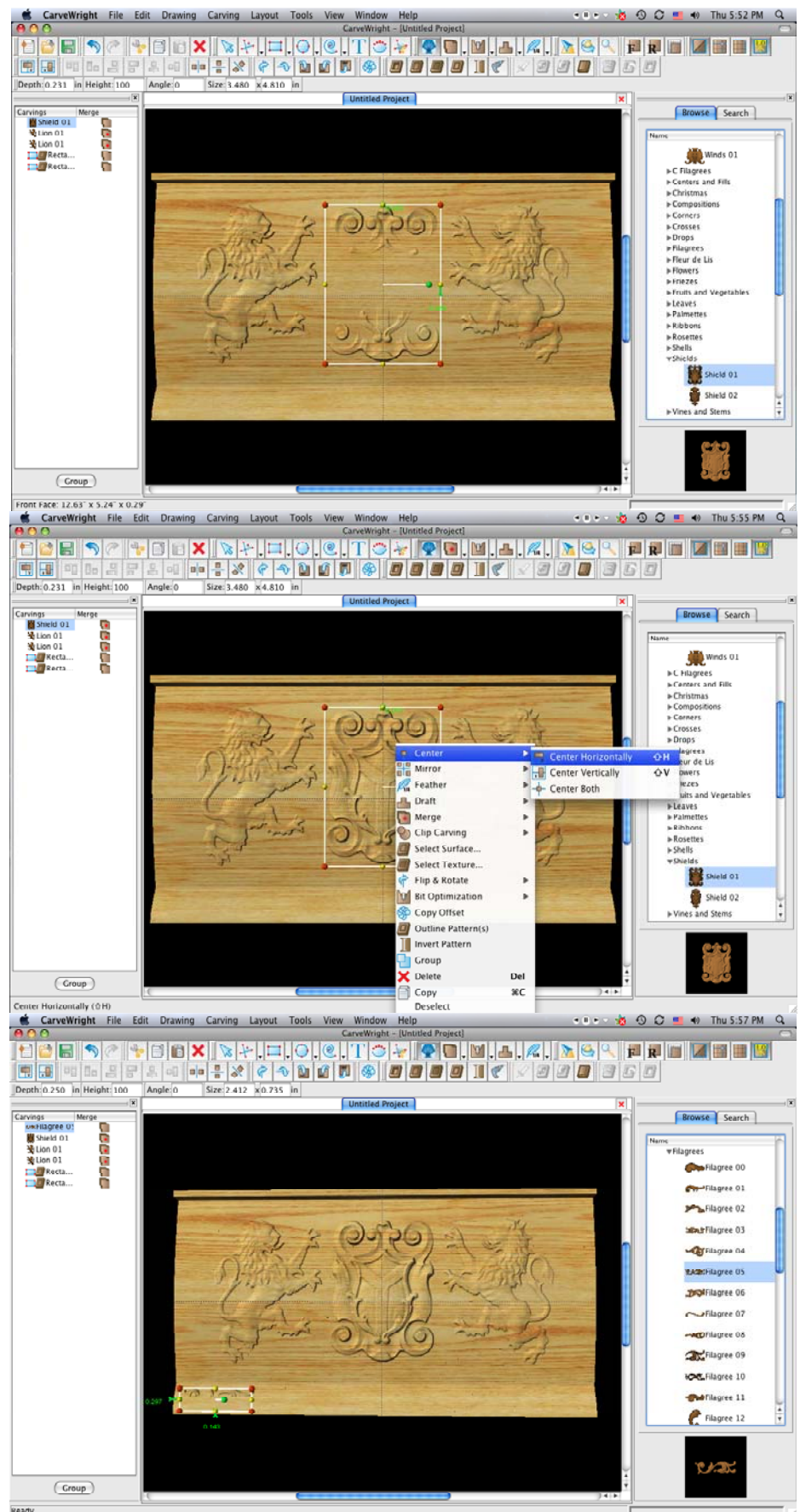
Select the “Shield01” pattern and select “Center”, “Center Horizontally”.

➤ PATTERN PLACEMENT



Under “Filagrees”, select “Filagree05” and place in the bottom corner of the board.

Size to fit within the smaller rectangle along the bottom.



➤ MIRROR



Right click on the hole and select “Mirror”, “Mirror Horizontally”.

➤ CARVING LIST



Select “View” and then “Carving List”

➤ MERGE



Select the “Filagree” patterns in the carving list. Click on the merge style and select Additive.

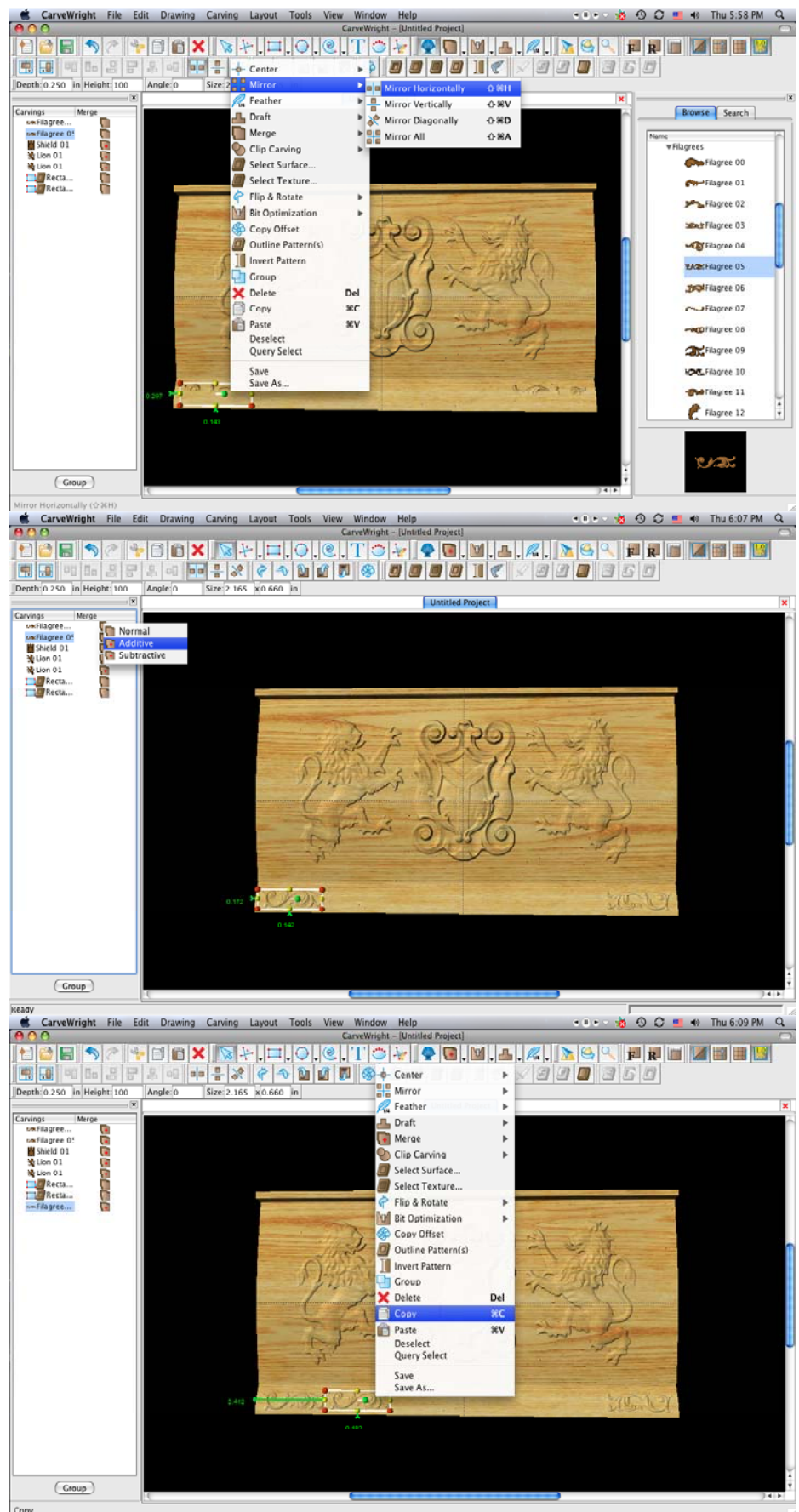


➤ COPY & PASTE



Right Click, choose “copy” and “paste” to put another filagree next to the existing filagree and again Mirror Horizontally.

➤ MIRROR



Repeat this step again so the pattern is mirrored across the entire bottom of the board.

➤ MANIPULATING THE WORKPIECE



Rotate and/or zoom your workpiece to see your design board more clearly.



Select "File", "Save"

*****IMPORTANT*****

Name file and click "Save" to hard drive.

➤ UPLOADING TO MEMORY CARD



Select "File", "Upload" Save to memory card.

Example:

lionboxside_N_45
(recognizable name_quality
setting_estimated time to
carve)

