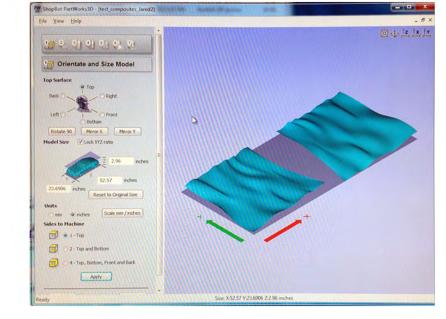


Open PartWorks 3D

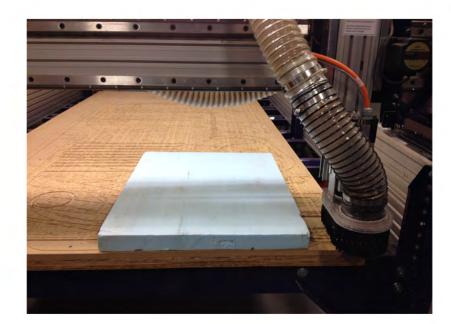
Porder

</t

Select file (.stl)



Check dimensions of your model



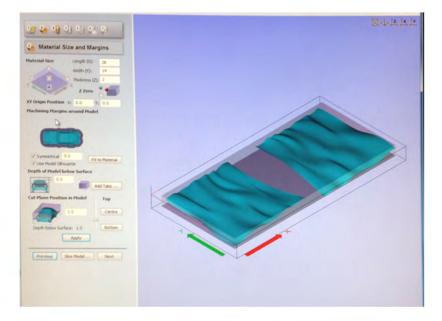
Position your material

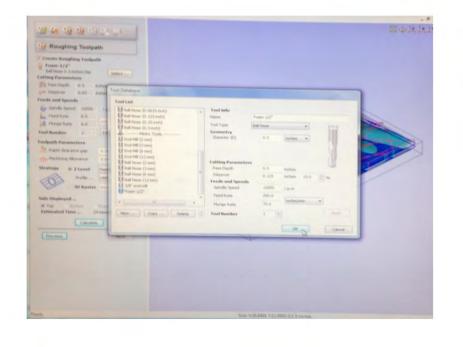
Define the origin of your model according to your material on the shopbot

Define the dimensions of your material

Roughing Toolpath

Select tool Suggested foam only: 1/2 " Ball end Diameter: .5 Pass depth: .5 Steppover 25% Spindle speed 12000 Feed rate: 200 Plunge rate: 75





Roughing Toolpath

Calculate Note, it usually takes twice as long to do the job



Finishing Toolpath

We used same tool and only changed:

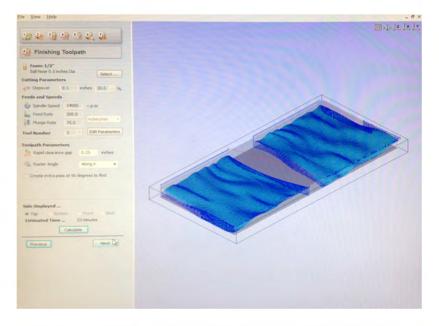
stepover to 15%

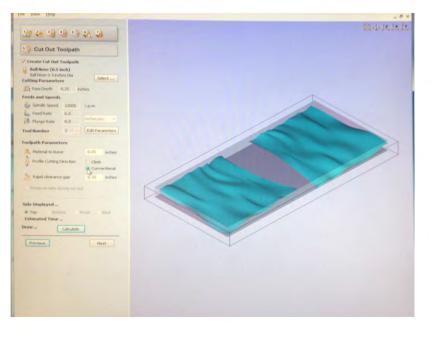
Calculate

Cut out toolpath

we used same tool

Material to leave: 0.05 Select Conventional

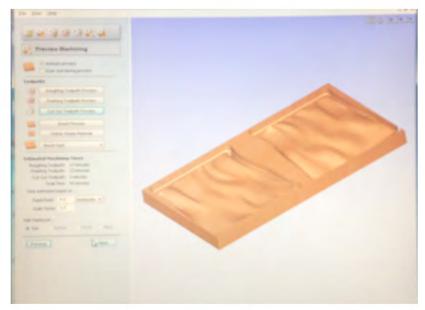


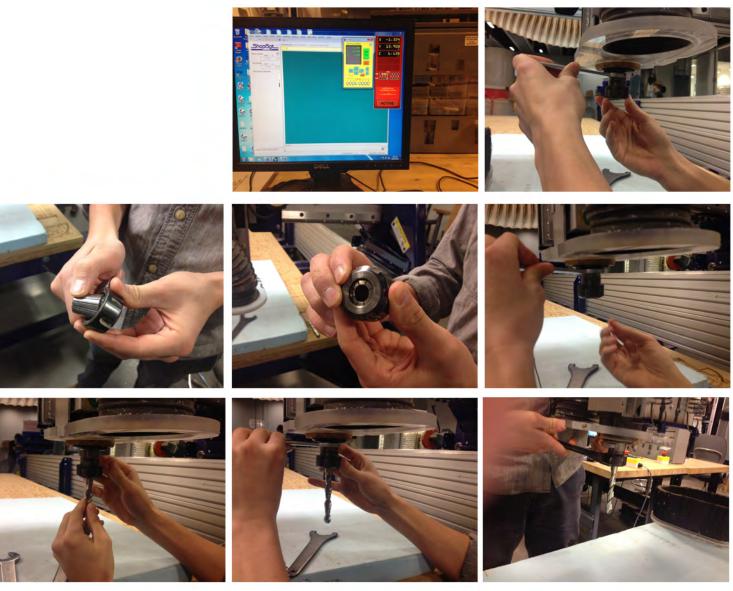


Preview

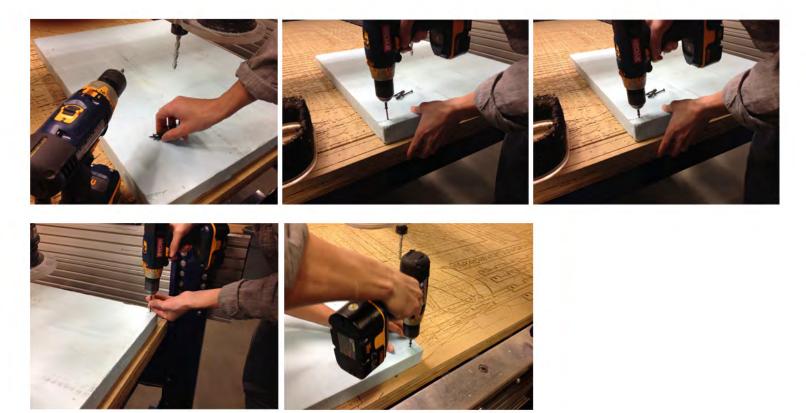
Next, save

If same tool is selected you can save it as a single file, otherwise you have to save it as different files for each toolpath

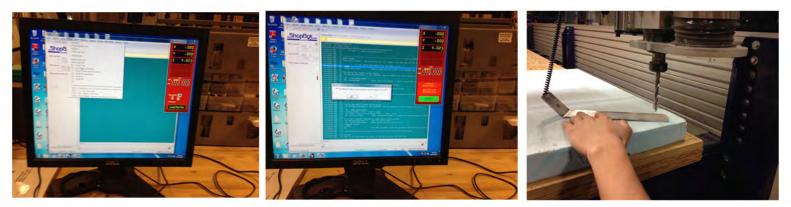




Open Shopbot, use yellow box to move the machine close to you, change tool, pick the right tool, secure it!



Secure your material, place screws on the perimeters



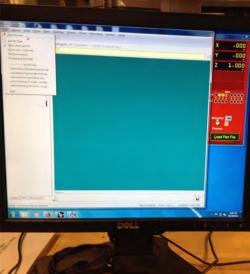
Zero X & Y using the yellow box Under cuts, find Zero Z using plate... follow instructions and place steel plate under the tool



turn on key

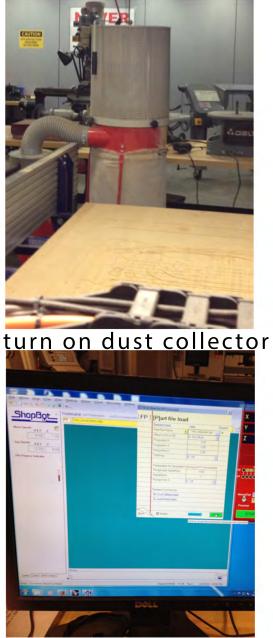


use same speed

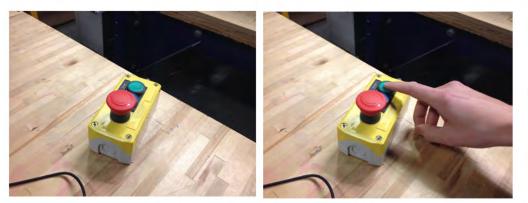


load file

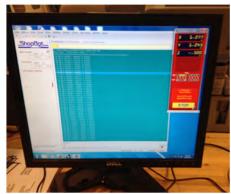




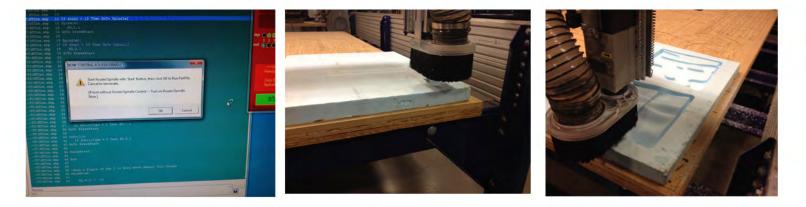
press start







start!



press Ok ONLY if spindle is on

work in progress, be ready to stop the work if the machine does something that it is not OK



work done! unscrew your material



VACUUM THE MESS!



Place both pieces on top of MDF



Use heat gun to smooth surface



place foam



measure fabric



make sure that fabric is the right size



wear gloves



cut fabric (optional laser cut)



measure Bleeder breather



cut 2 layers



cover foam with plastic wrap



place Bleeder breather



make sure is the right size



make sure that all foam is nicely covered



measure & cut plastic wrap



use roller for perforatations



mixing ratio: check the bottle use 4 fabric layers



place fabric on model and add second layer of plastic wrap perforated



place plastic wrap perforated



pour mixed resin on fabric distributed evenly



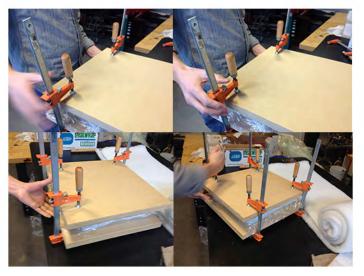
add second layer of Bleeder breather



cover second layer of foam with plastic wrap



place second second layer of foam





make sure is nicely covered

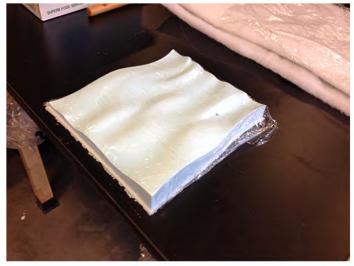


place top mdf layer

secure the layers with 4-6 clamps

use cure time described on resin container

vacuum bag method



place foam and cover it with plastic wrap



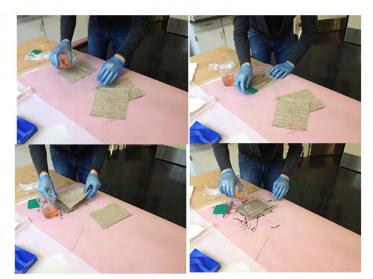
mixing ratio: check the bottle use 4 fabric layers



place fabric on model and add second layer of plastic wrap perforated



use 4 layers of fabric



pour mixed resin on fabric distributed evenly



add two layers of Bleeder breather

vacuum bag method



open vacuum bag



place model under the valve



roll the end part of the vacuum bag with white tube



use easy demold, apply over the area to place model



roll the rest of the vacuum bag



close the bag

vacuum bag method



make sure that is properly sealed





turn on vacuum pump



compress your mold to make sure that the bag is fully compressed



debag time: 4-8 hours use curing time described on resin container