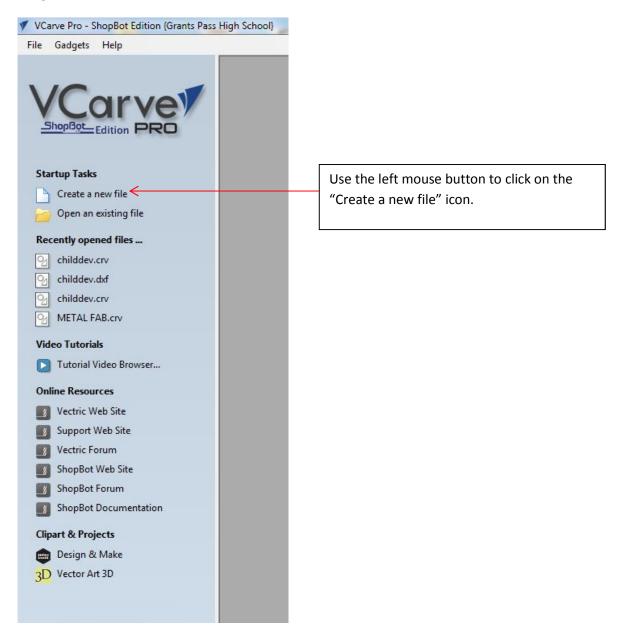
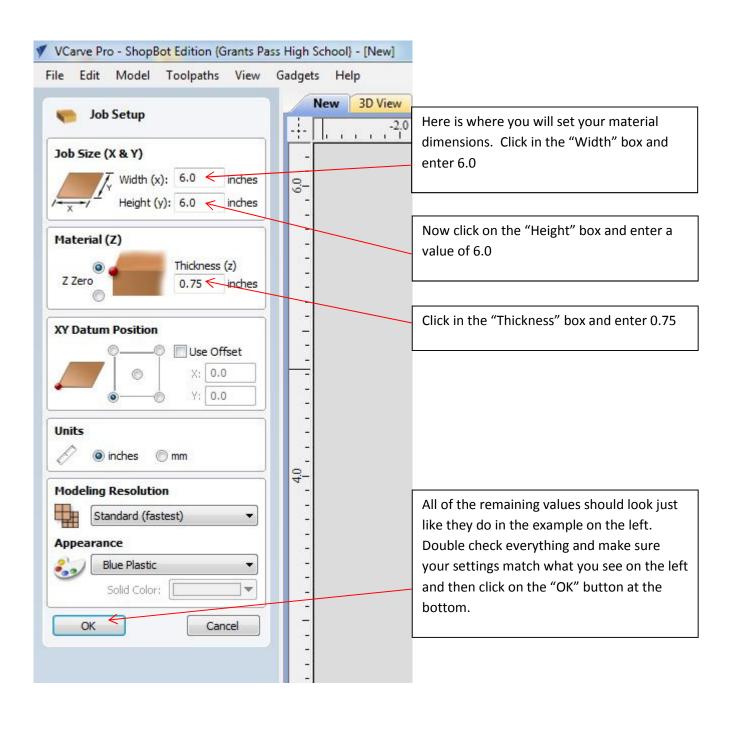
Summer STEM Academy

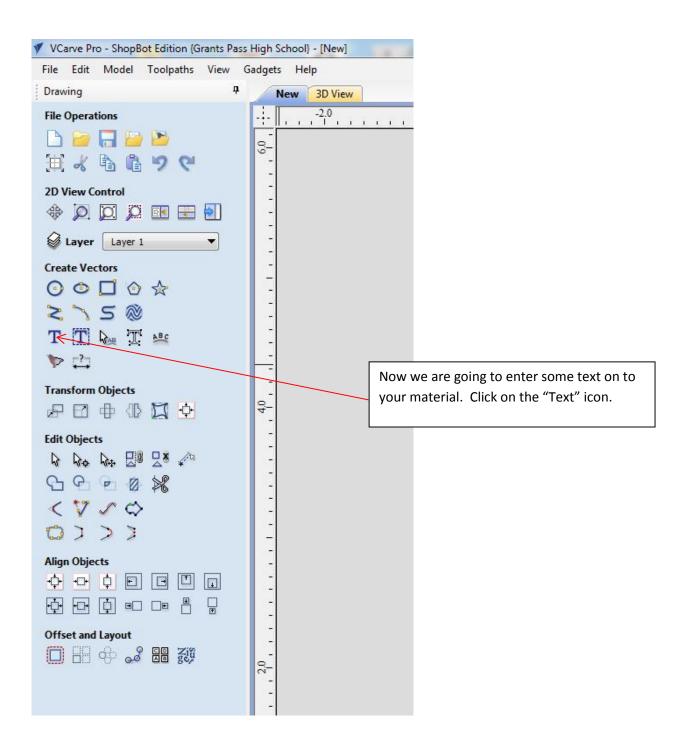
VCarve Name Sign Instructions

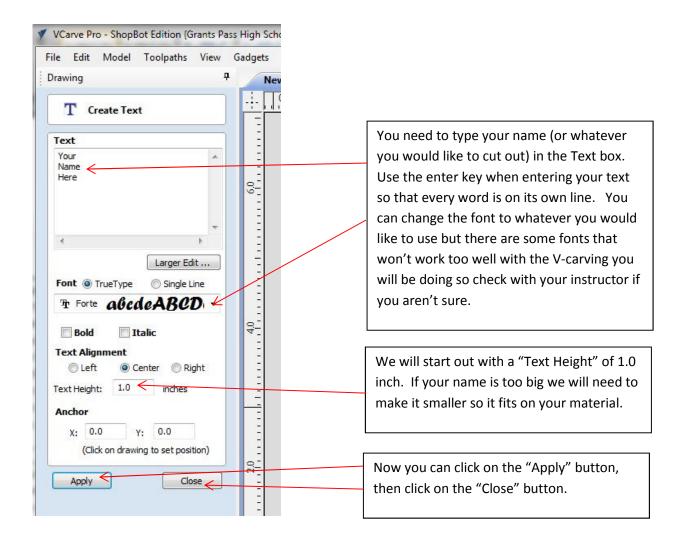
Follow these instructions to draw your personalized sign on the CNC router in the Woodshop / Manufacturing shop.

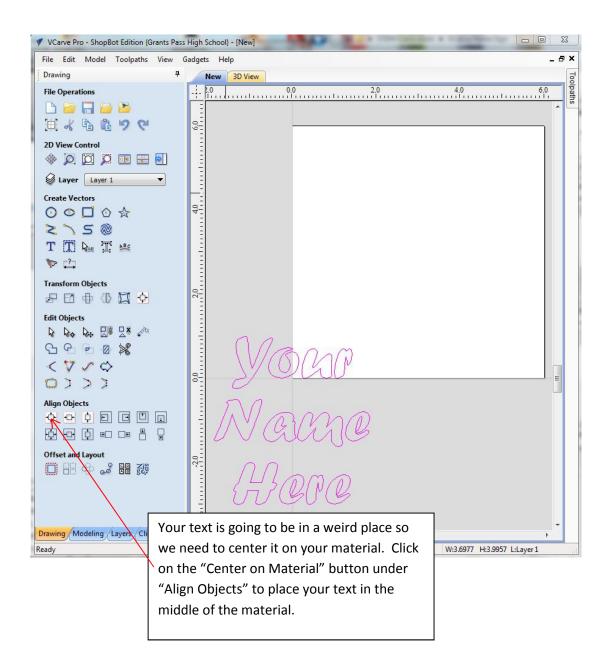
1. Log on to your computer and double slick on the "VCarve Pro" icon on the desktop. Your screen should look like the image below.

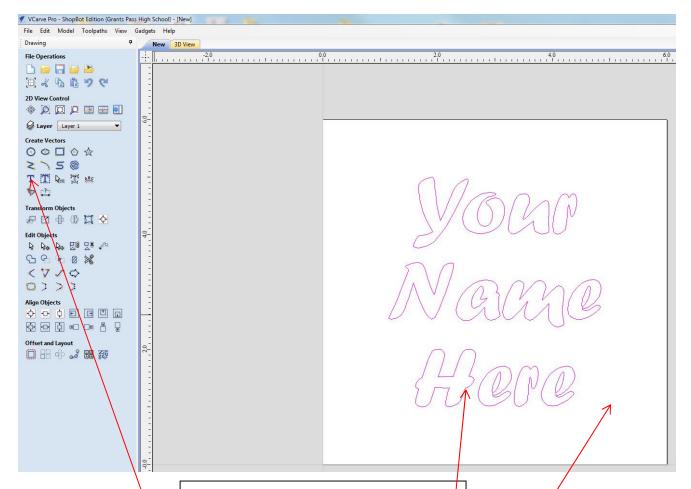




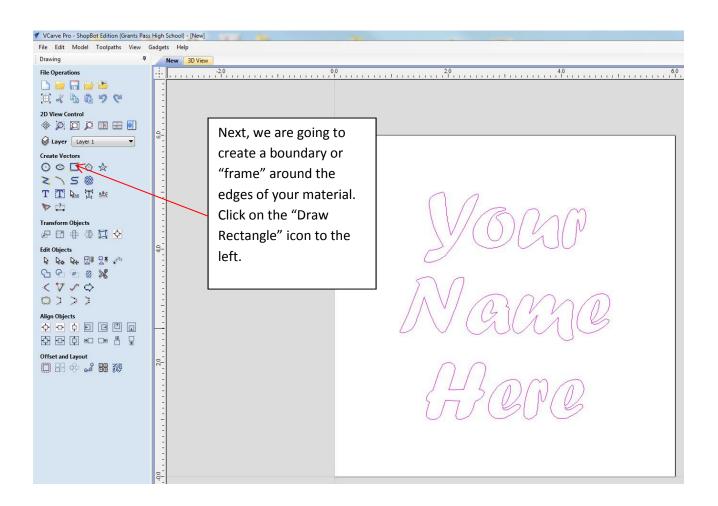


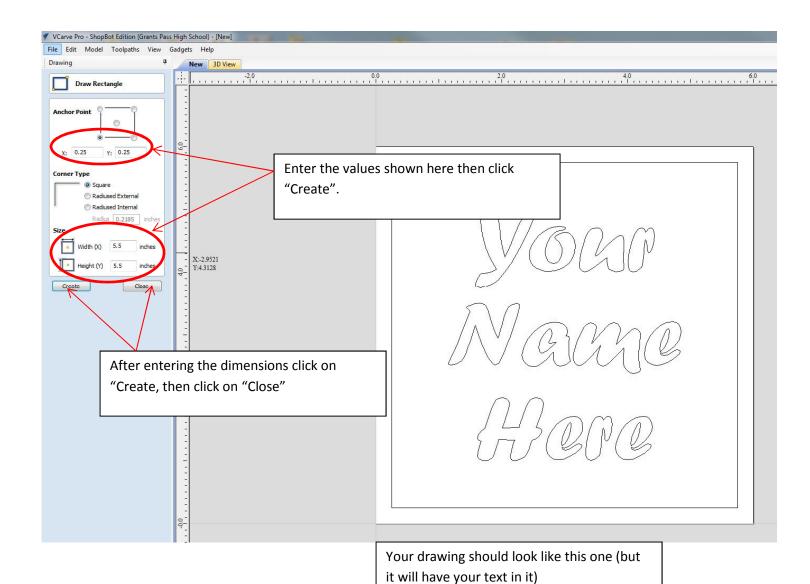


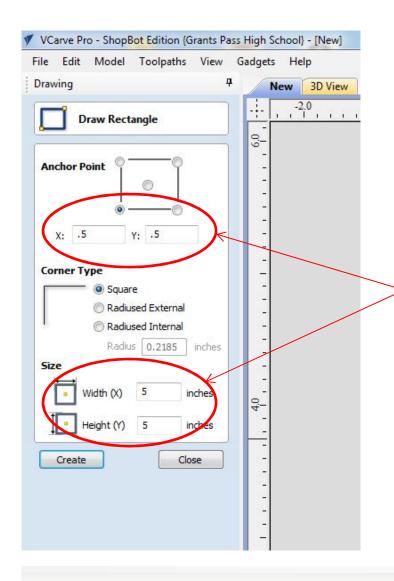




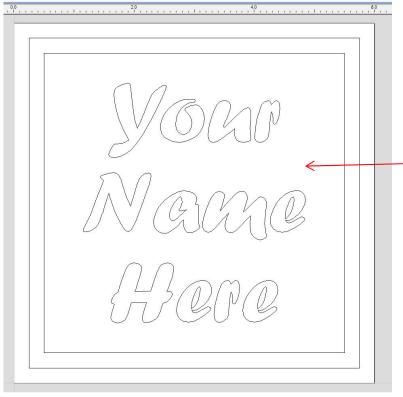
Your screen and work space should look like this now. You can click on the text that you created and it will turn red, meaning that it is active. If you want to make changes, just click on the text so it turns red then click on the "T" (text icon) and you can make any changes you like such as making the text size smaller so that your name fits on the material. Clicking anywhere on your material outside of the text turns it black and makes it inactive.



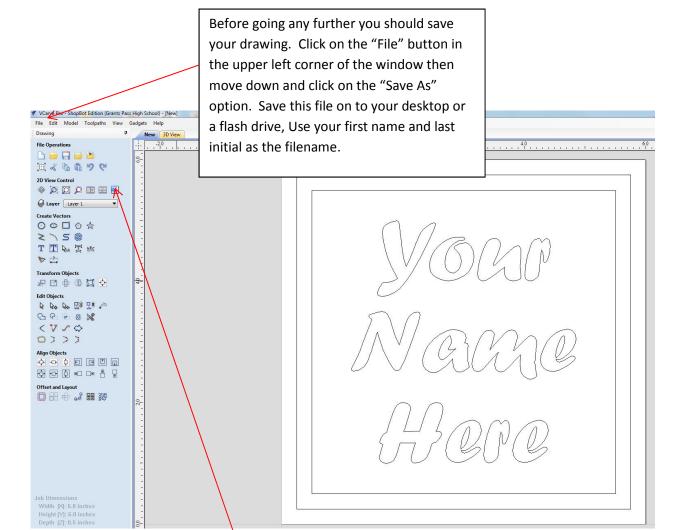




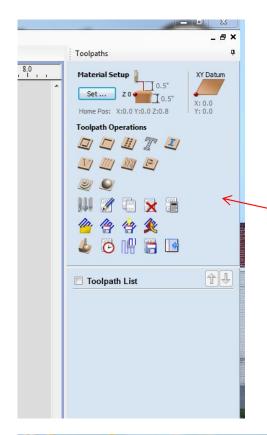
We are going to create a second box that is a quarter of an inch smaller than the first one all the way around. This will define the vcarve "frame" that we will be cutting. Enter all of the values shown here then click "Create" then "Close".



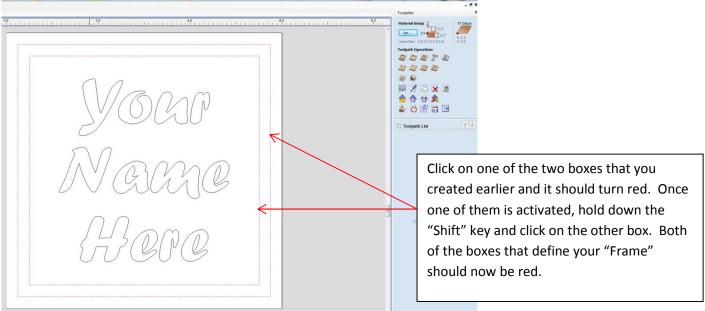
Your project should look like the one here (except that it has your text in it).

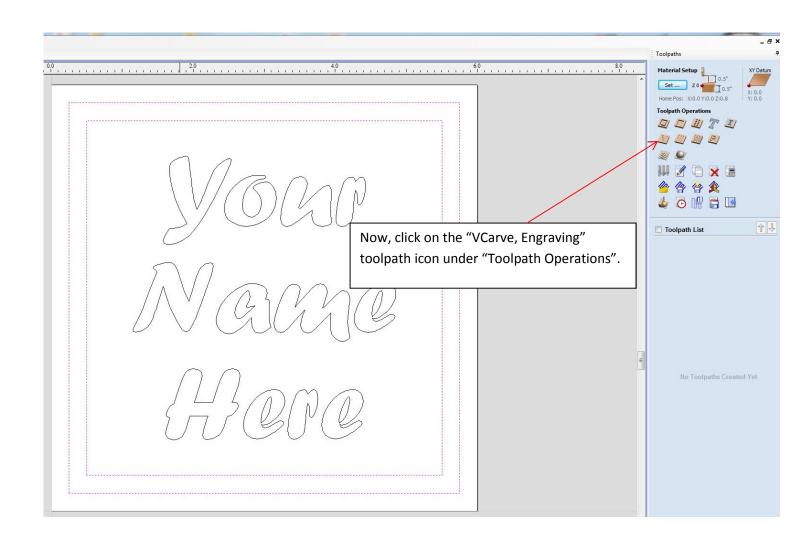


Now we are going to work on generating the toolpaths that will eventually make your sign. Cick on the "Switch to Toolpaths" icon.

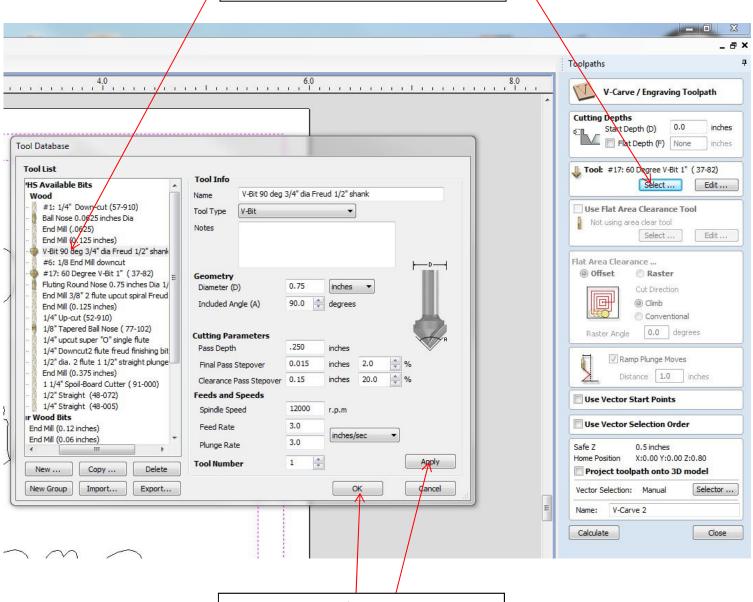


The toolbar that was on the left side of the screen has now been replaced with the "Toolpaths" toolbar on the right side. This is where we will generate the "G Code" that will instruct the machine just how to go about cutting out your sign.

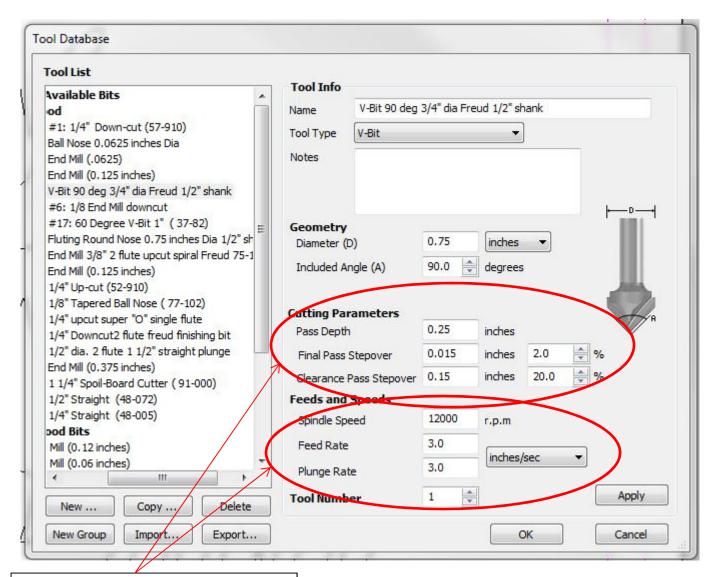




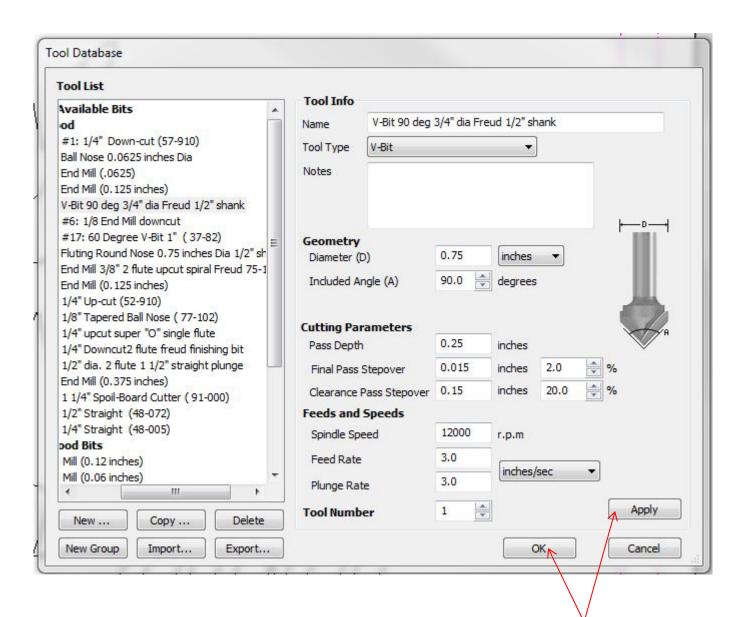
Now we need to choose the bit and all of the parameters that go along with your bit choice. Click on the Tool "Select" button and the window seen below will pop-up. Look down in the "Tool List" on the left and click on the 90 deg V-Bit.



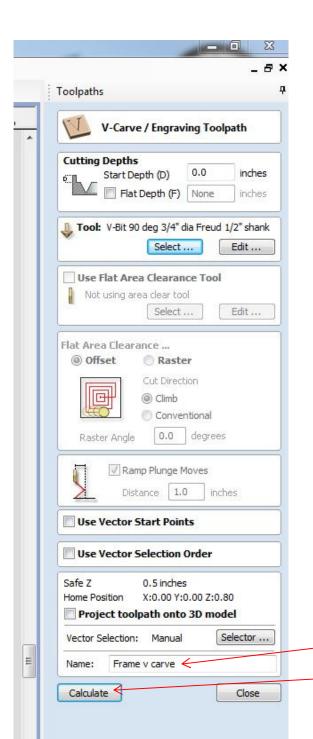
Once you have all of the numbers in the Tool Database" the same as you see here, click on the "Apply" button to save all of your settings then click on "OK".



We need to tell the machine how fast we want it to work. Set all of the numbers to exactly what you see here.

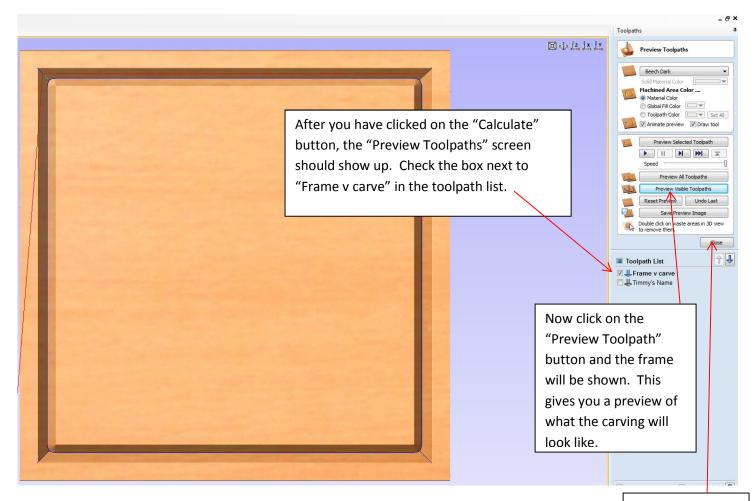


Once all of the numbers match what is shown here, click on the "Apply" button, then click on "Ok".

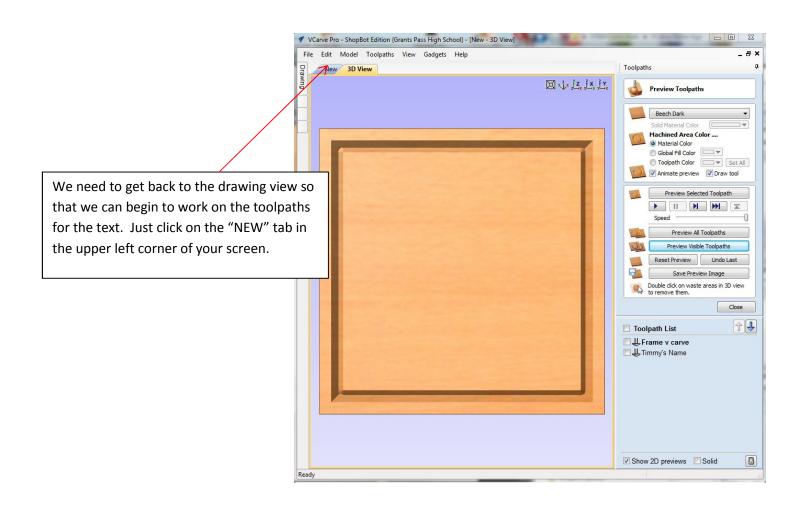


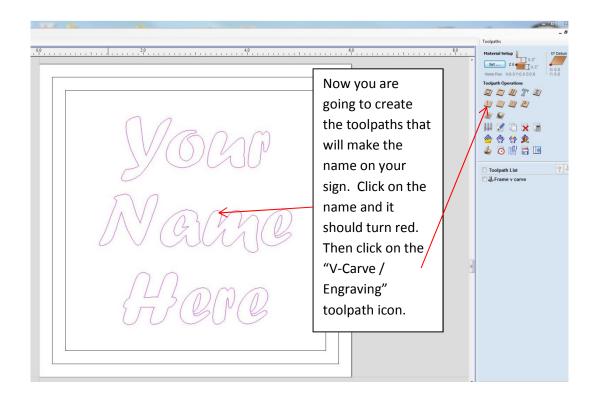
Once you closed the "Tool Database" window, check that the "V_Carve / Engraving Toolpath" window has the same settings as you see here.

Give the file the name you see here and click on the "Calculate" button.

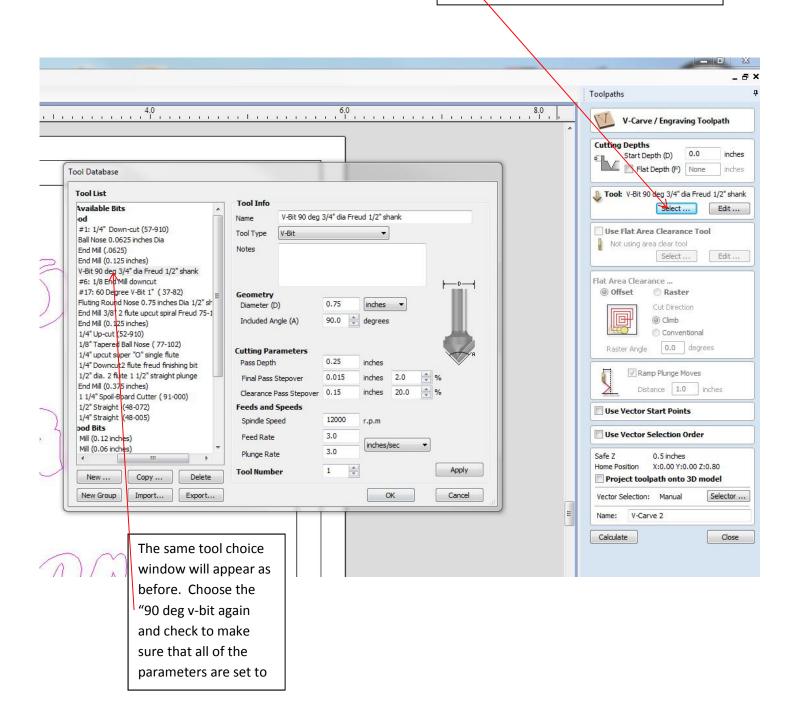


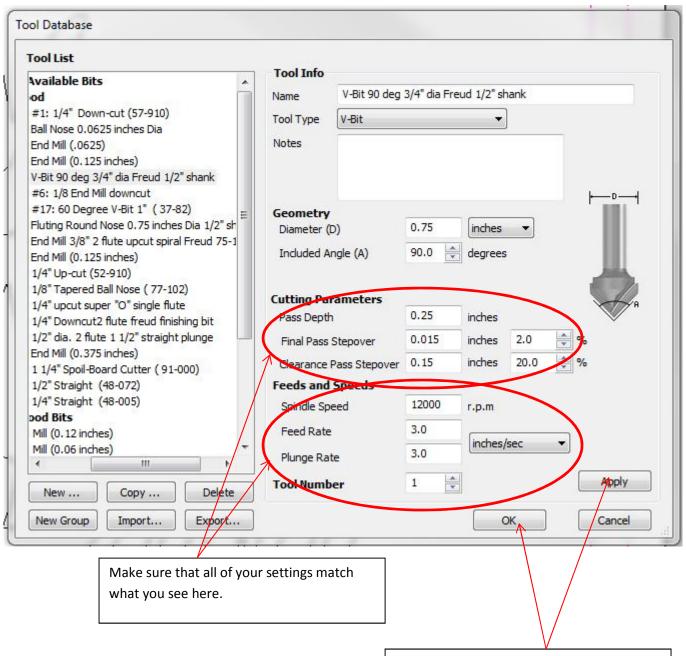
Now click on the "Close" button to exit this screen.



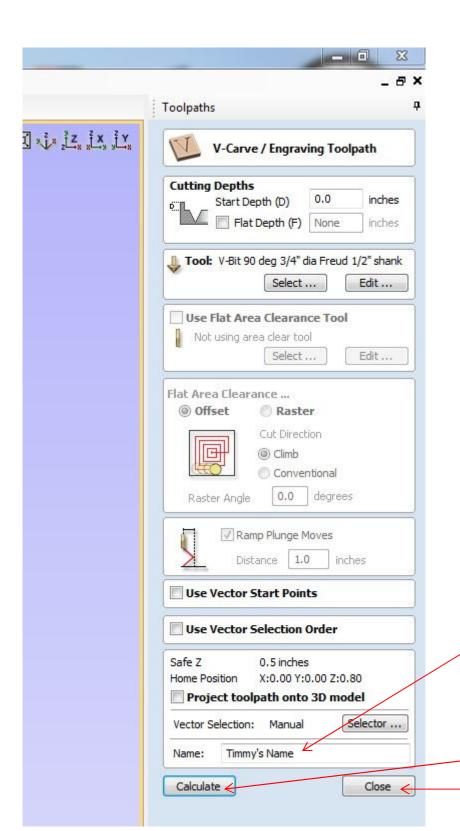


We are going to follow the same steps as we did to make the frame border. Click on the "Select" button in the tool window.



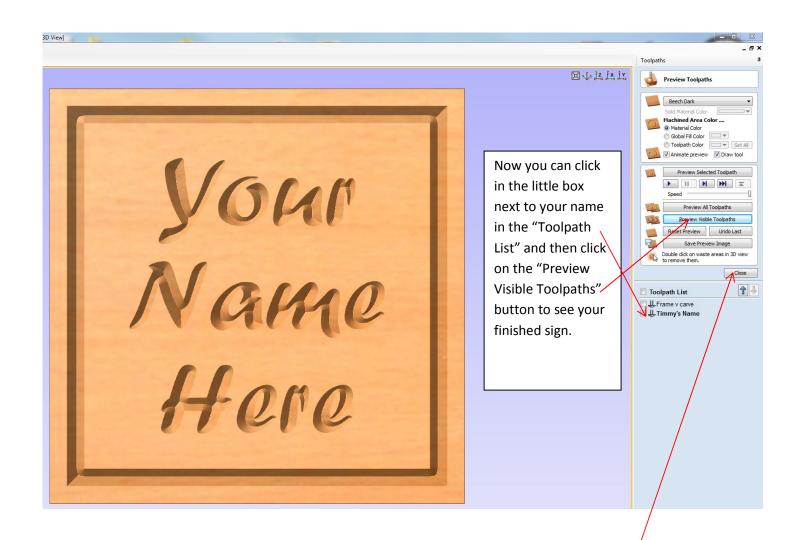


Once you have checked all of the settings, click on "Apply" then click on "Ok".



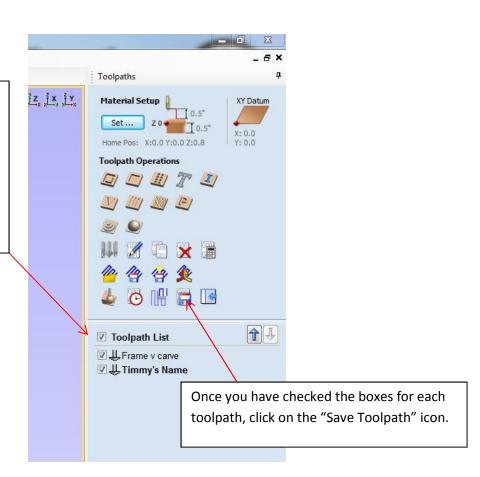
Everything should look the same as it does here. The only thing you need to do is to give the toolpath a name. Give it your own name so we can find it later when we go out into the shop to cut your sign.

Now you can go ahead and click on the "Calculate" button then click on the "Close" button.

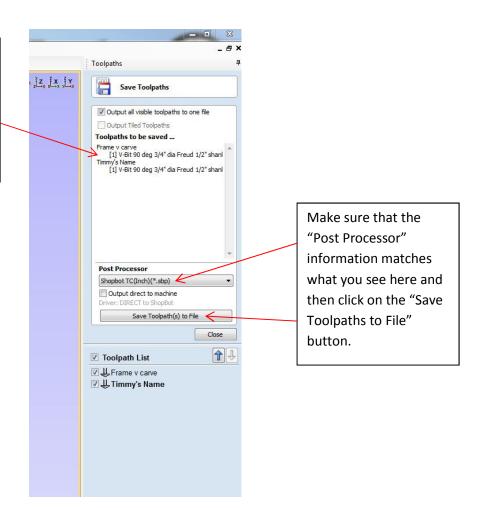


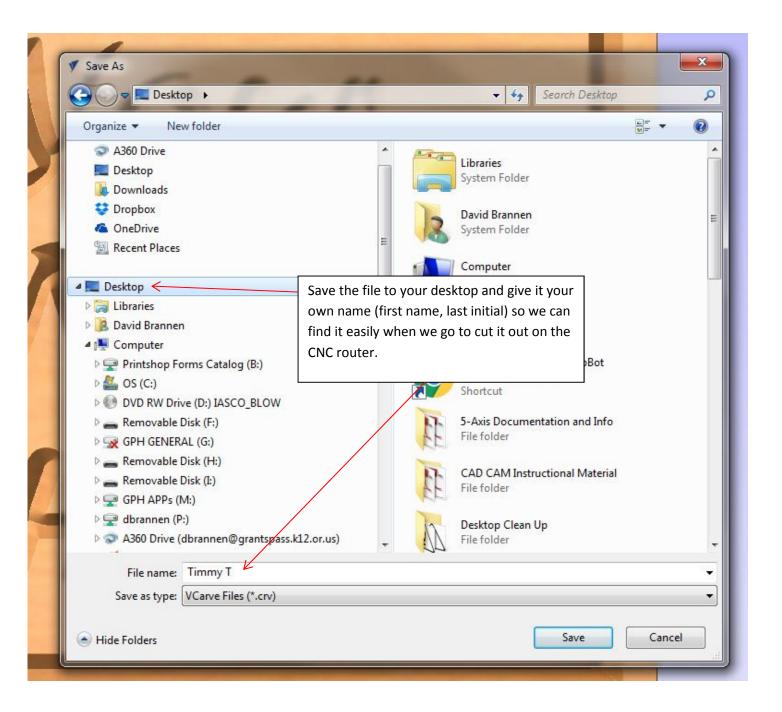
If everything looks good, click on the "Close" button to exit out of this window.

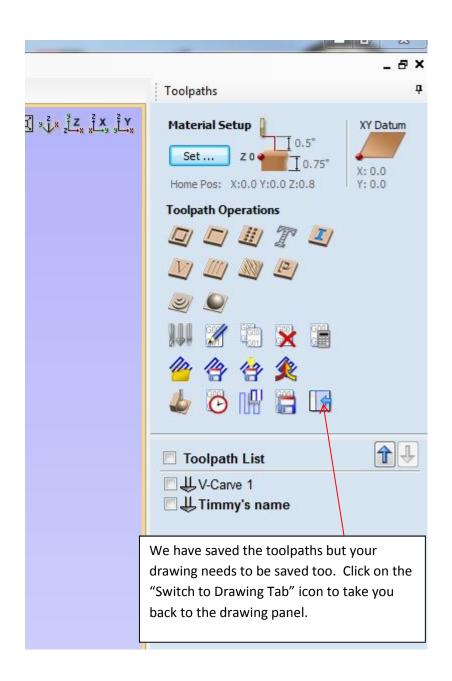
We need to save your toolpaths next so make sure the boxes are checked in the "Toolpath List".



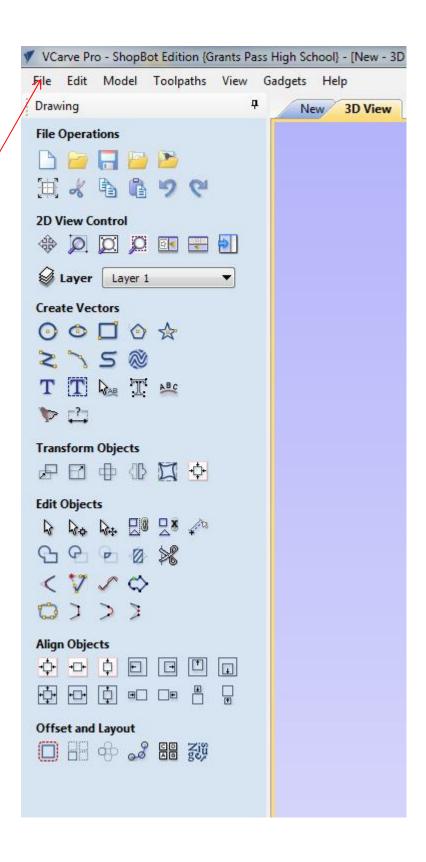
You should see the two toolpaths that you are saving in the window. The Frame VCarve and the Name toolpath.

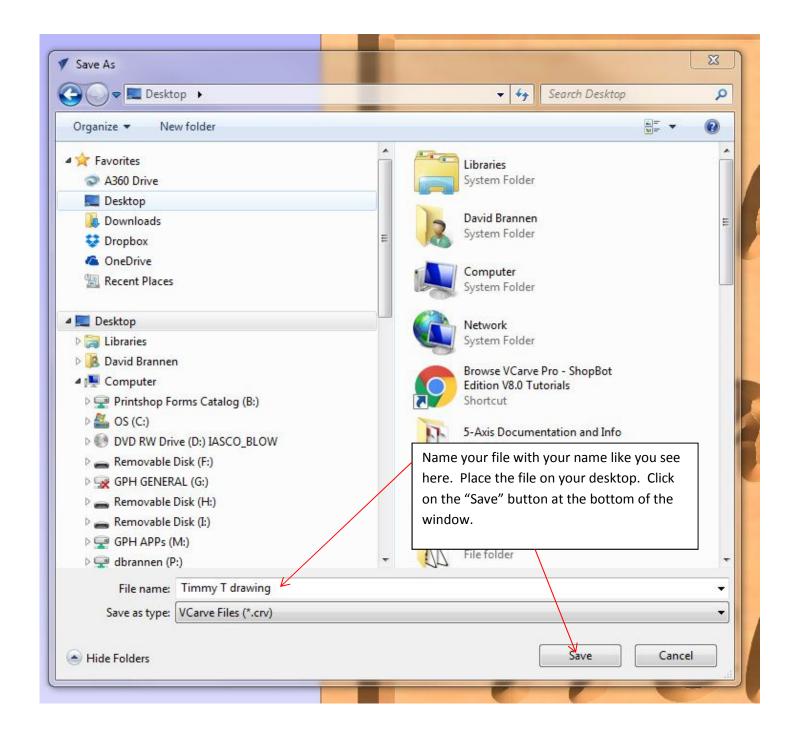






Click on "File" then from the drop down menu click on "Save As".





That's it! You are ready to go out to the shop and create your custom sign on the CNC router!