

For Chuck

Prerequisites:

<http://docs.carbide3d.com/tutorials/tutorial-homing/>

<http://docs.carbide3d.com/tutorials/tool-change/>

<http://docs.carbide3d.com/tutorials/hello-world/>

There are no files included with this tutorial because you are creating them.

1 tool Chuck Sign - 3 inch letters for 1/4 inch End Mill (.25) #201 included with the machine.

This assumes 2 sided tape for work holding. Otherwise screws to the waste board in the upper left and lower right corners will work for this cut.

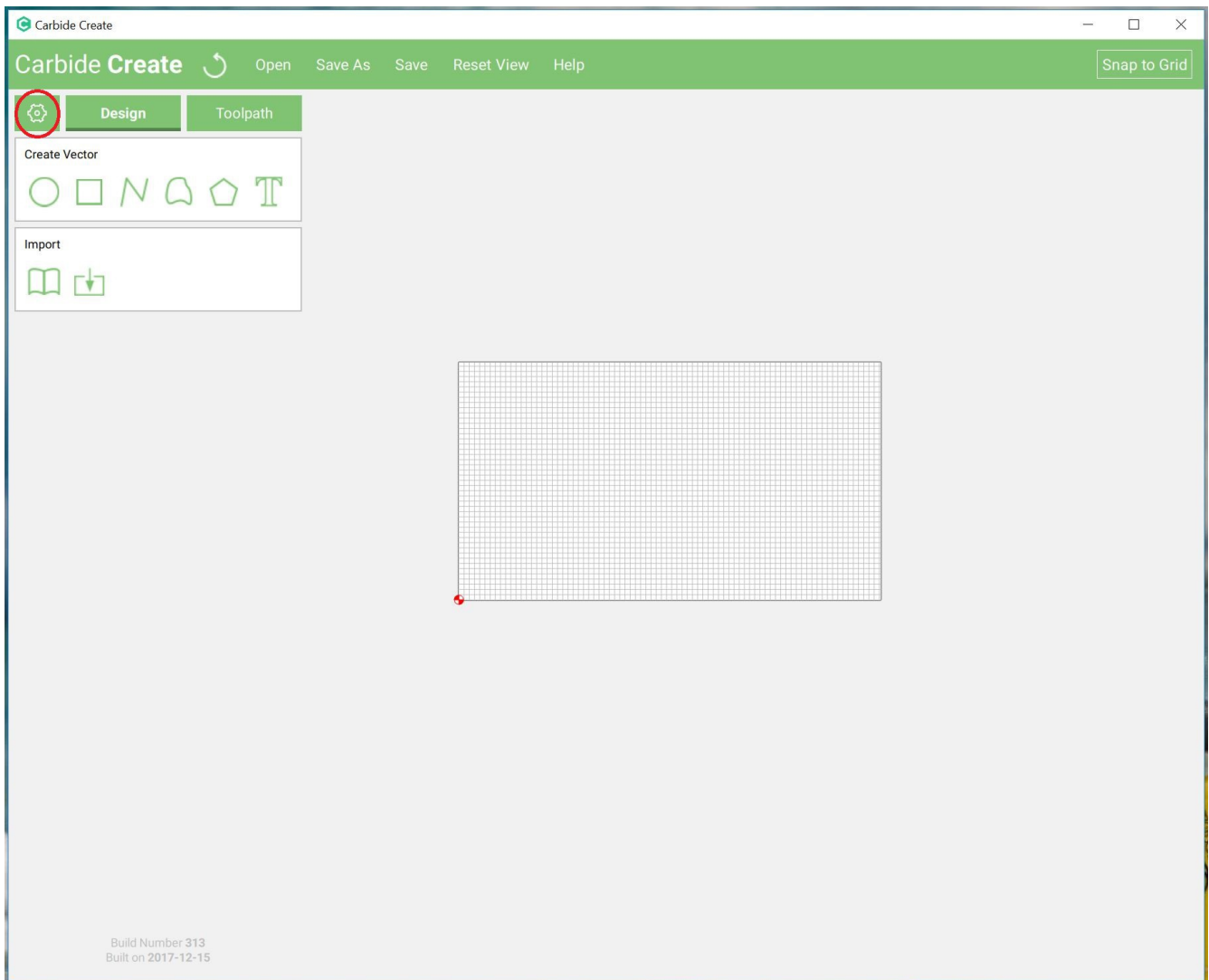
Stock 16 x 9 x .75 inches Hardwood

Point of origin - to keep with the hello world I'm using the lower left.

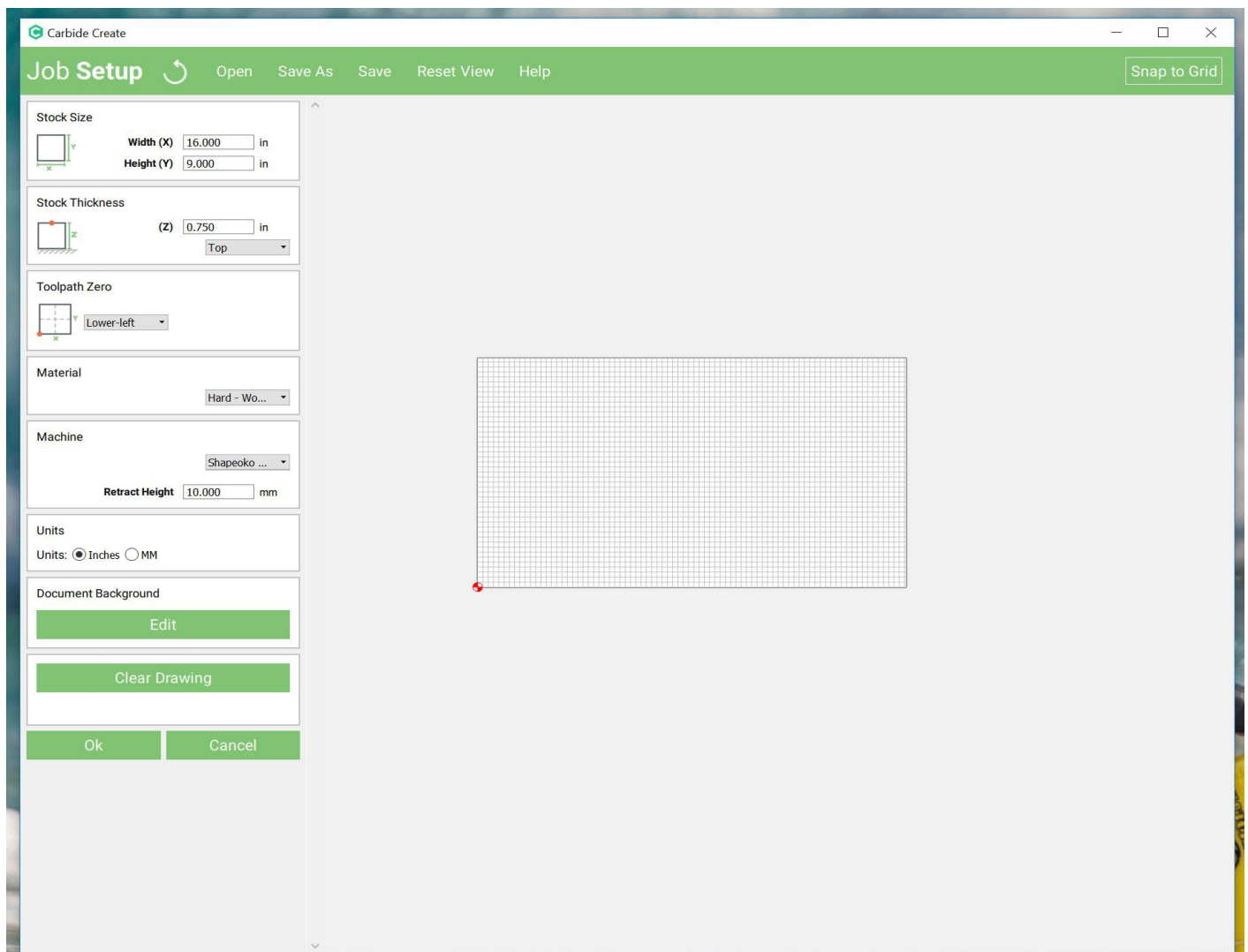
This is a simple pocket cut set of letters with a 1/4 inch EndMill

First open Carbide Create to start our project.

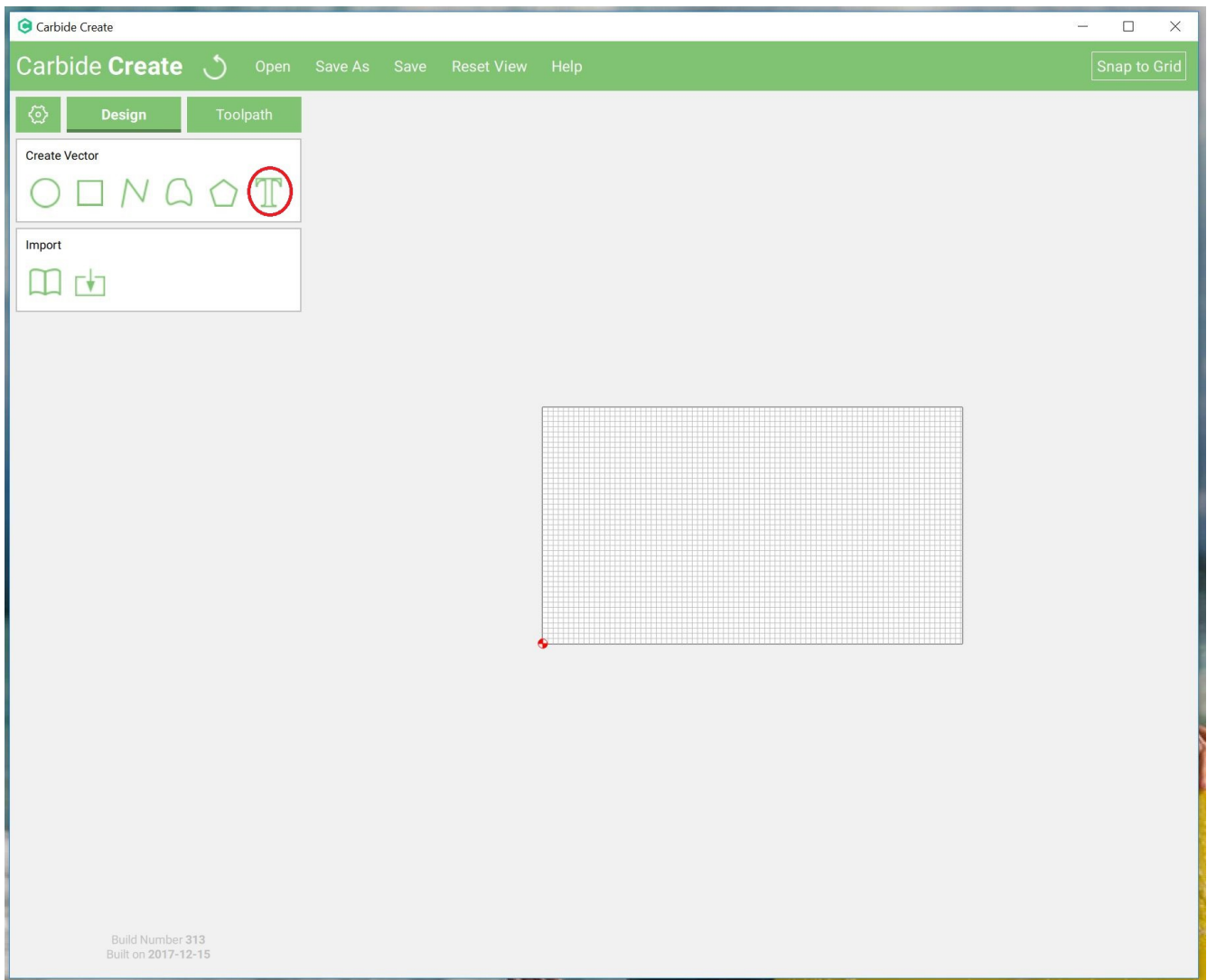
Now Click the gear symbol in the upper left corner to access the Job Setup as shown in the image below



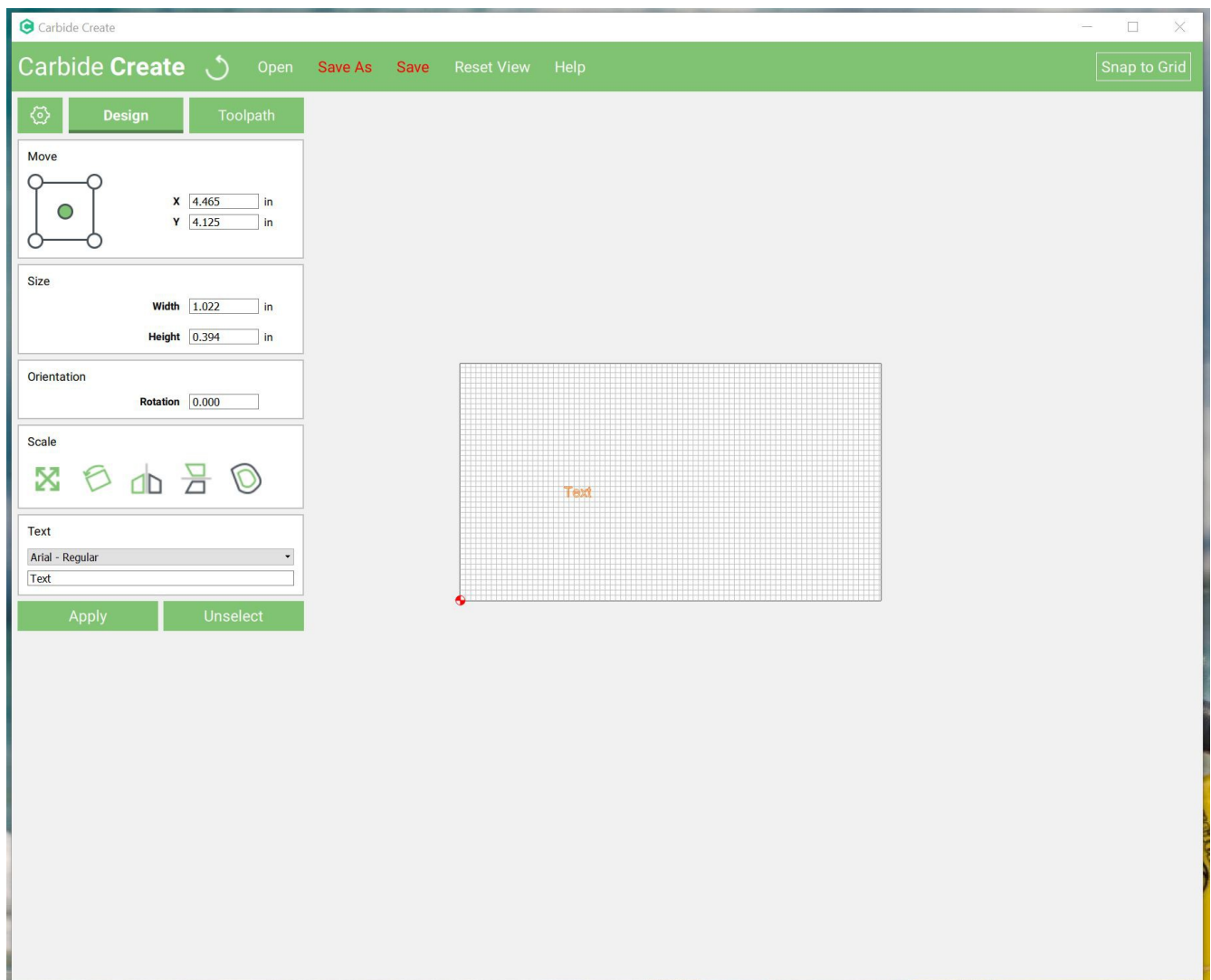
In Job set up under Units check that you are set to inches for this project. Then enter the Stock Size 16 x 9 inches. Stock Thickness .75. Leave it set for TOP. For Toolpath Zero select Lower Left. ( We will Zero and Touch Off using the same steps from the Hello World example when the time comes. ) Under Material pull down select Hardwood. Under the Machine pull down select your model of Shapeoko. Your screen should look similar to one shown in the image below. Now click the OK button at the bottom to accept these settings.



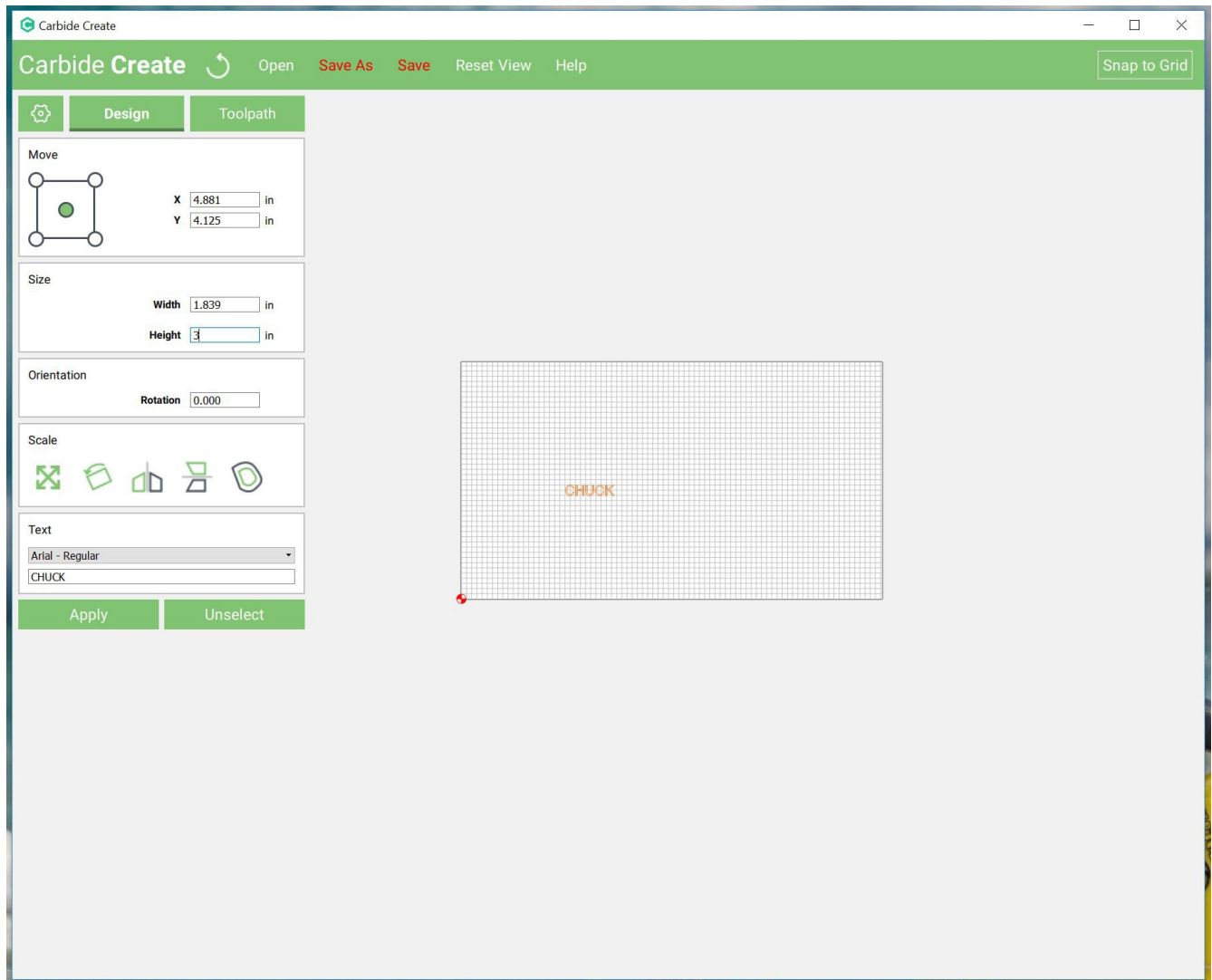
Next Select the Text Tool as shown circled in red in the image below.



Your screen will look similar to the one shown in the image shown below.

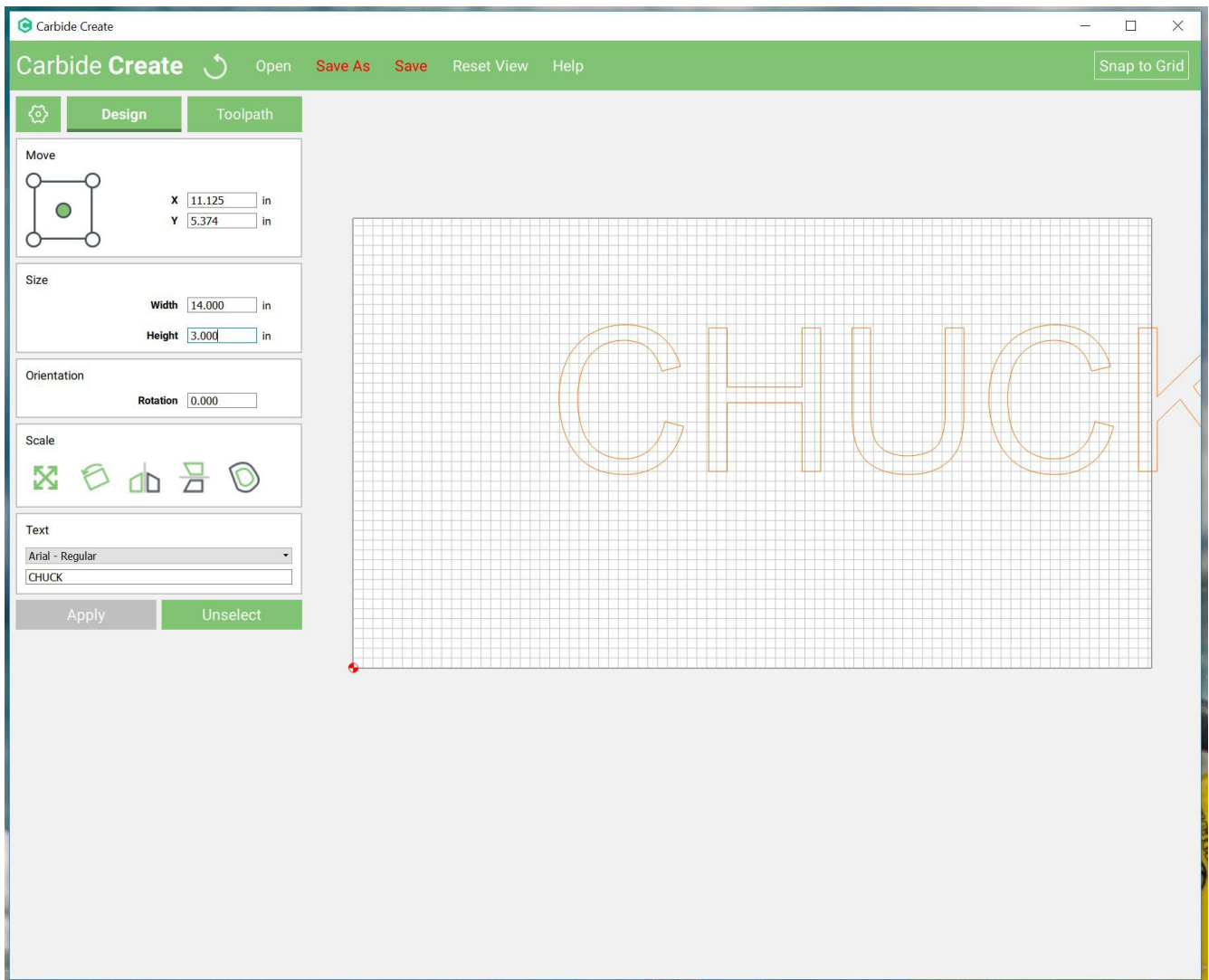


Now move to the Text box and type "CHUCK" and click the Apply button at the bottom. Your screen will look similar to the one shown in the image shown below.

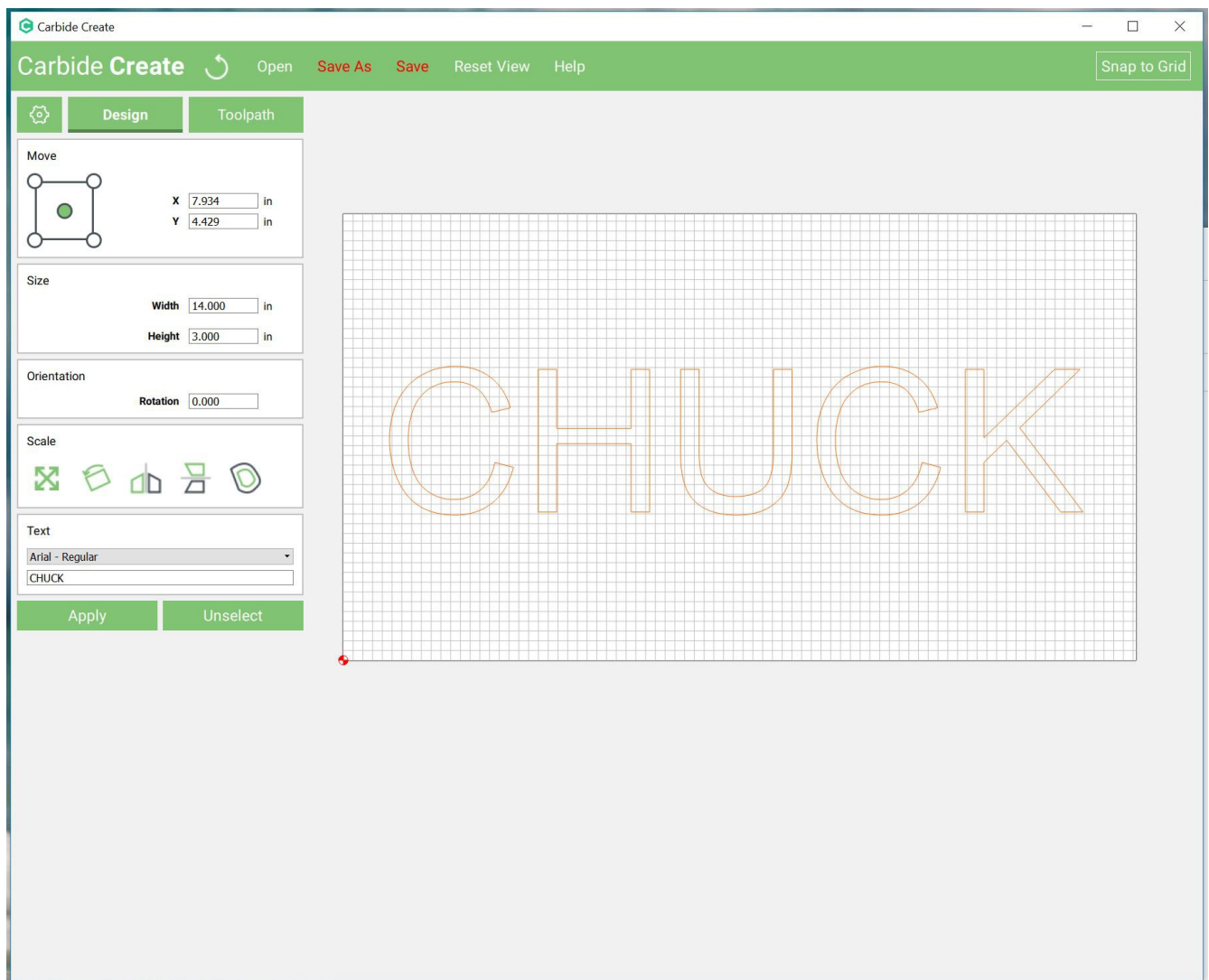


Before moving on Go to the Size box and enter "3" and click the Apply button at the bottom again.

Now I have Zoomed the Work Area with my mouse scroll wheel, depending on what equipment you have this may be a reverse pinch on a trackpad. After the Apply Button in the last step your screen will look similar to the screen shown in the image below.

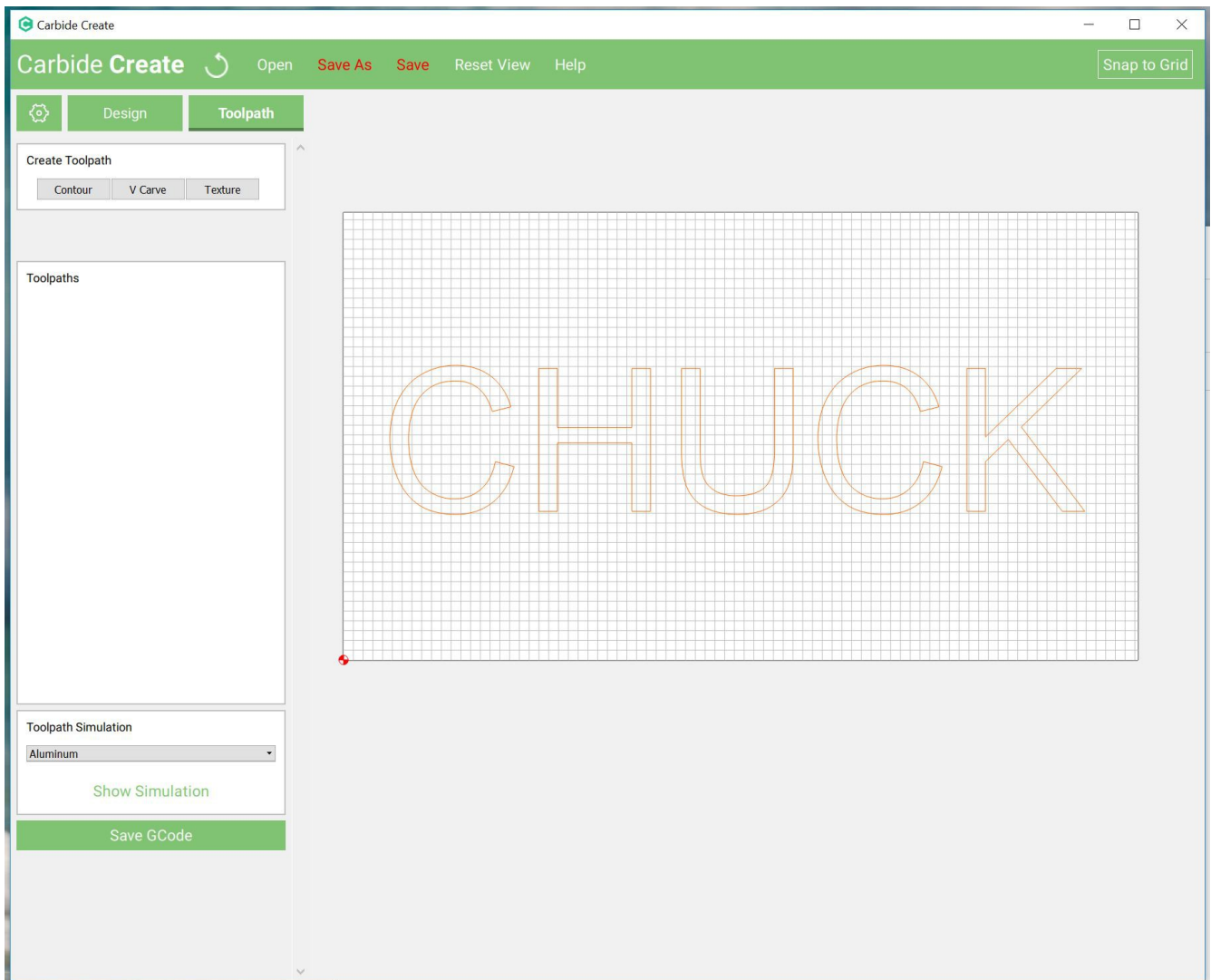


Now click the edge of the text and drag it to a centered position in the work area your screen will look similar to the screen shown below.

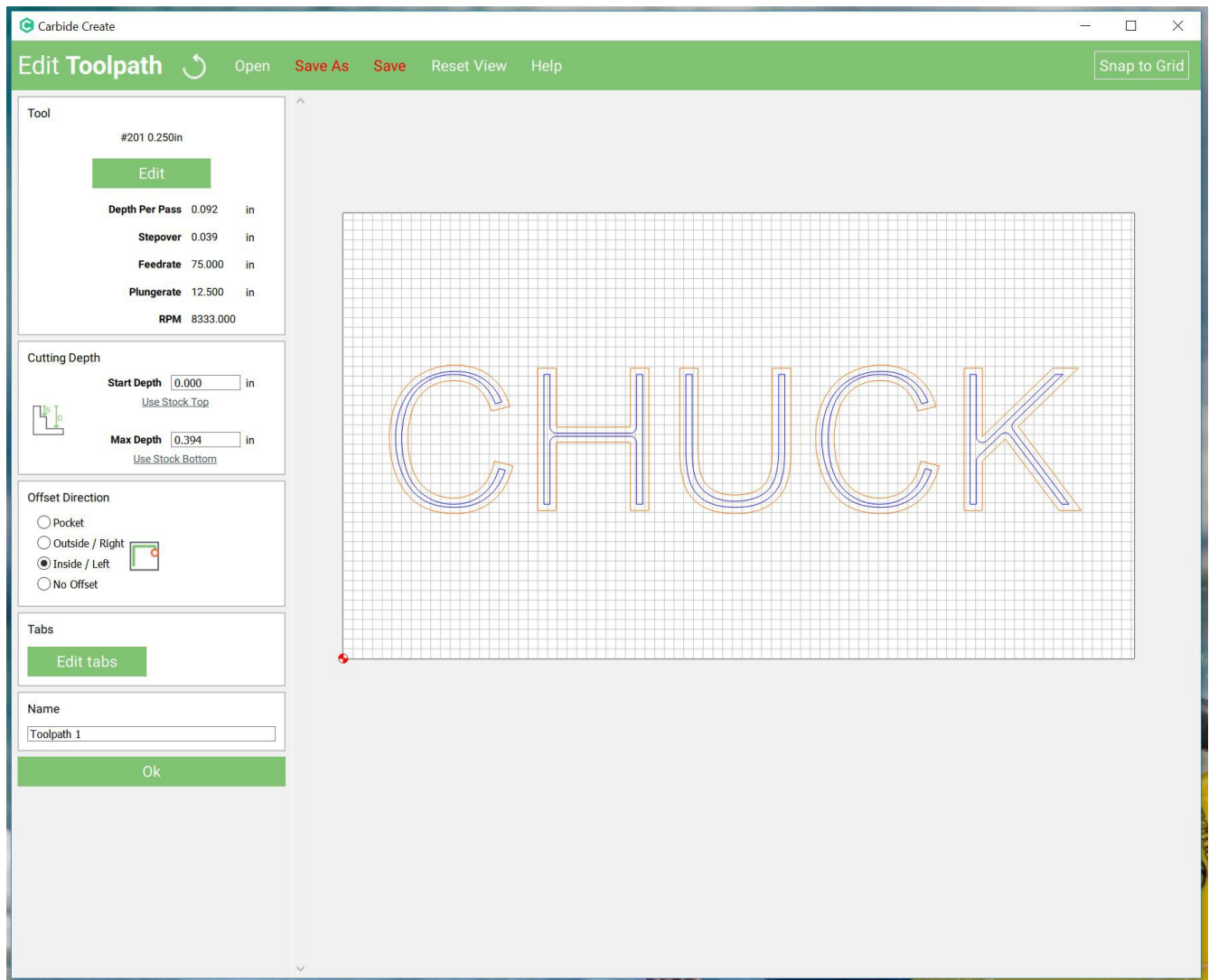


Now click the Toolpath button next to the Design Button at the top of the screen. Your screen will look similar to the screen shown below.

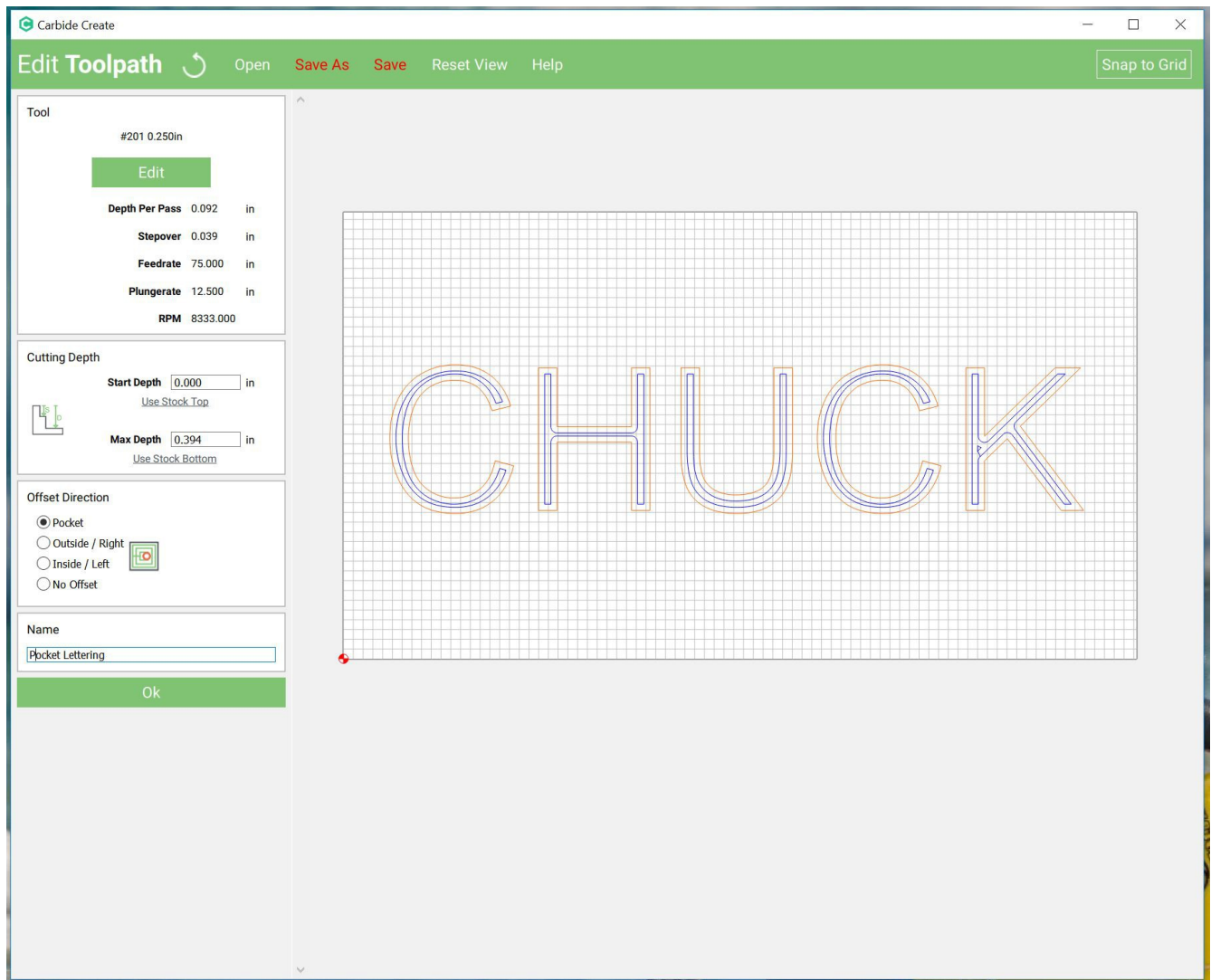




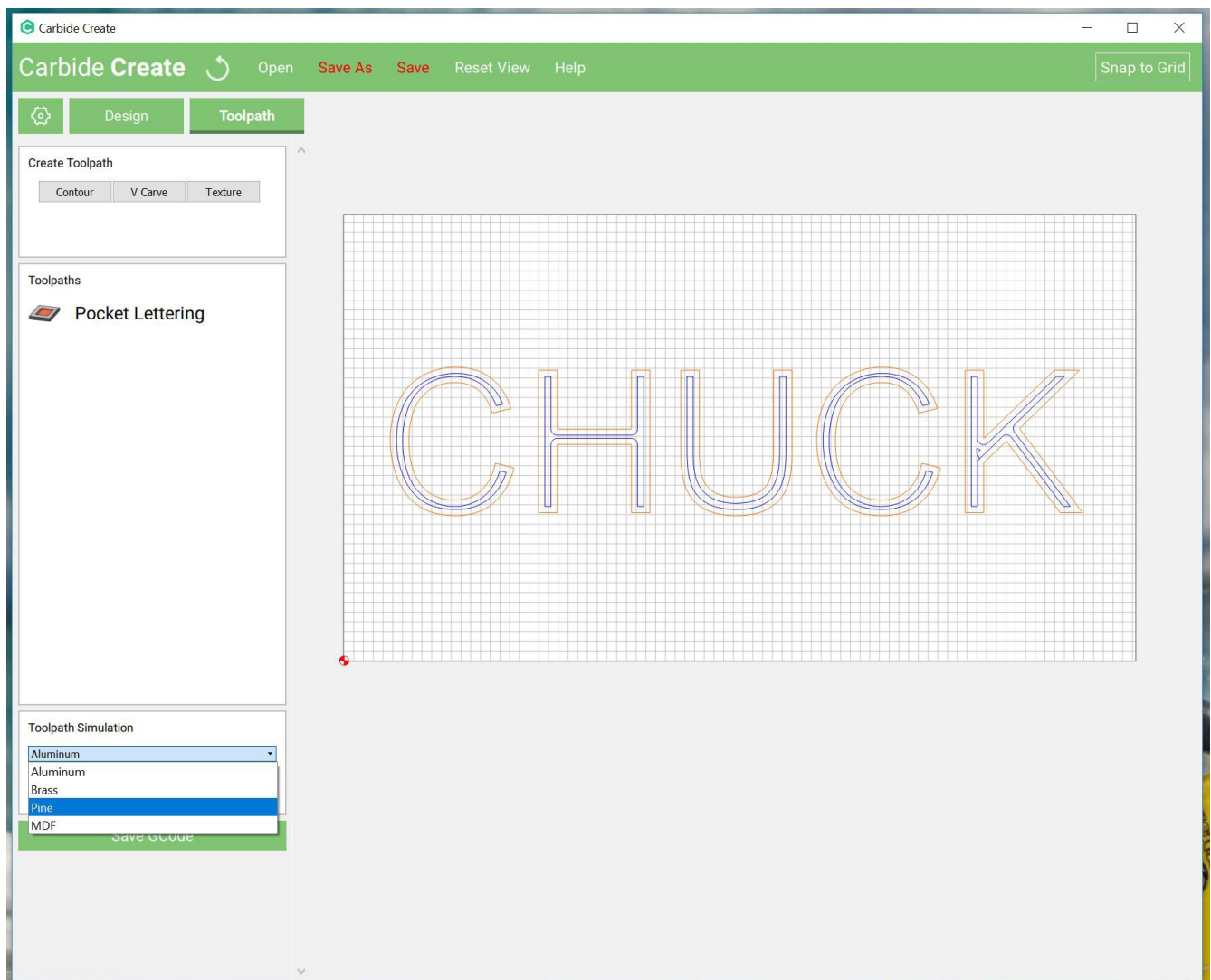
Now in Create Toolpath click Contour. Your screen will look similar to the screen shown in the image below.



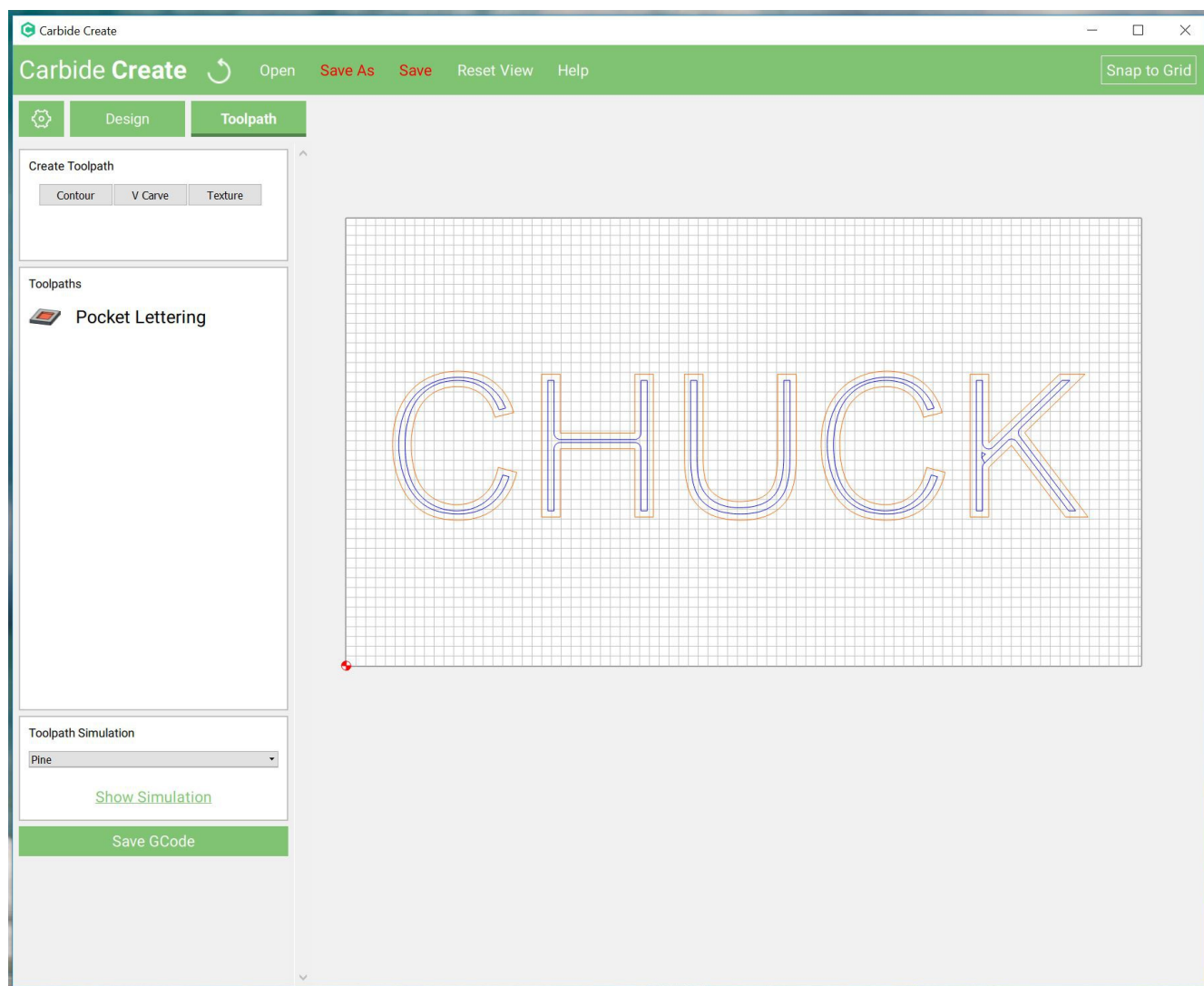
By default Inside / Left is selected. Click the bullet for Pocket under Offset Direction. At the top under tool make sure you have #201 showing, if not Click Edit and in the tool pull down find the #201 tool and click OK to select it. Then move to Name and Type "Pocket Lettering". Your screen will look similar to the screen shown in the image below.



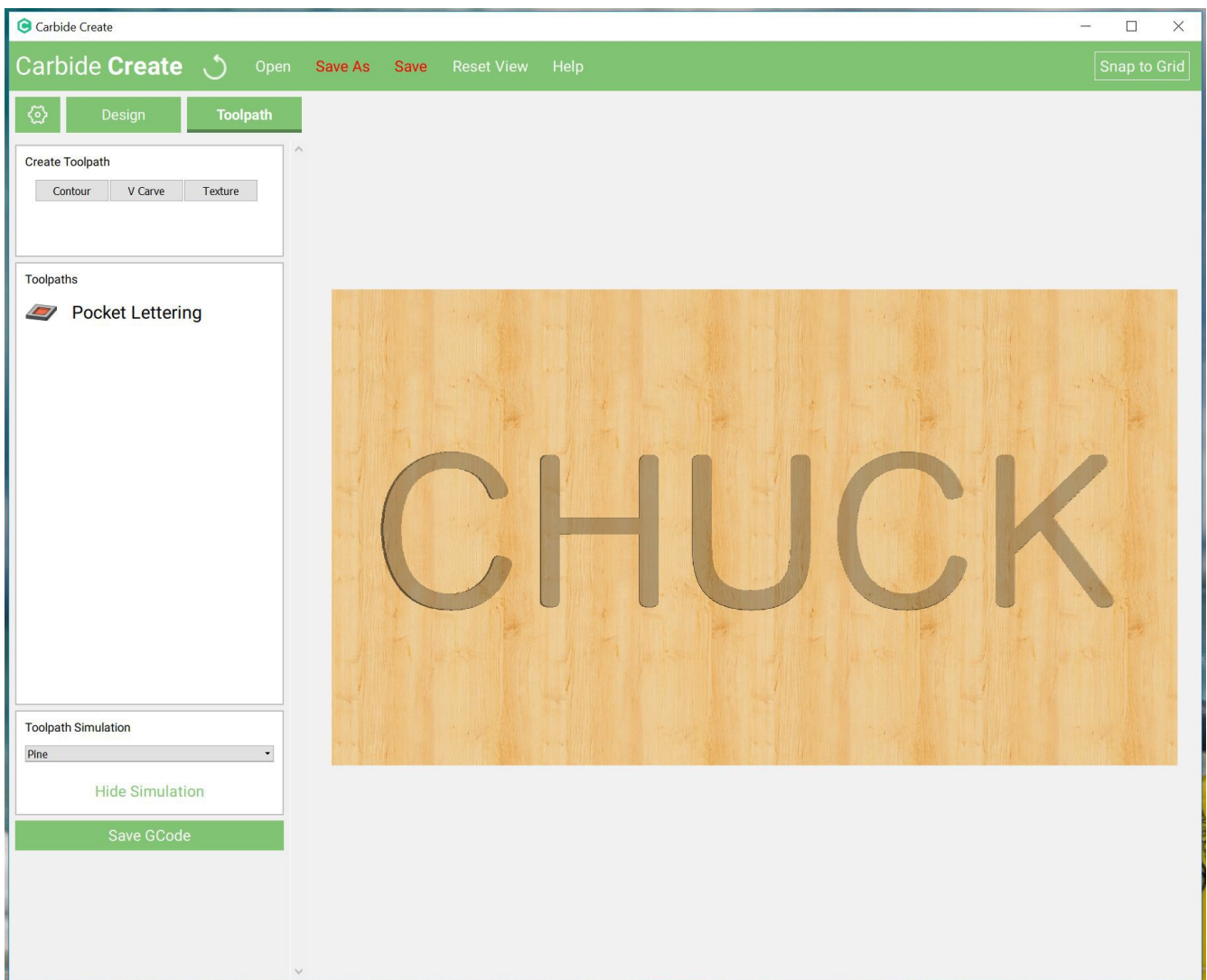
Now click the OK button at the bottom. In the Path Simulation pull down select "Pine". Your screen will look similar to the screen shown in the image below.



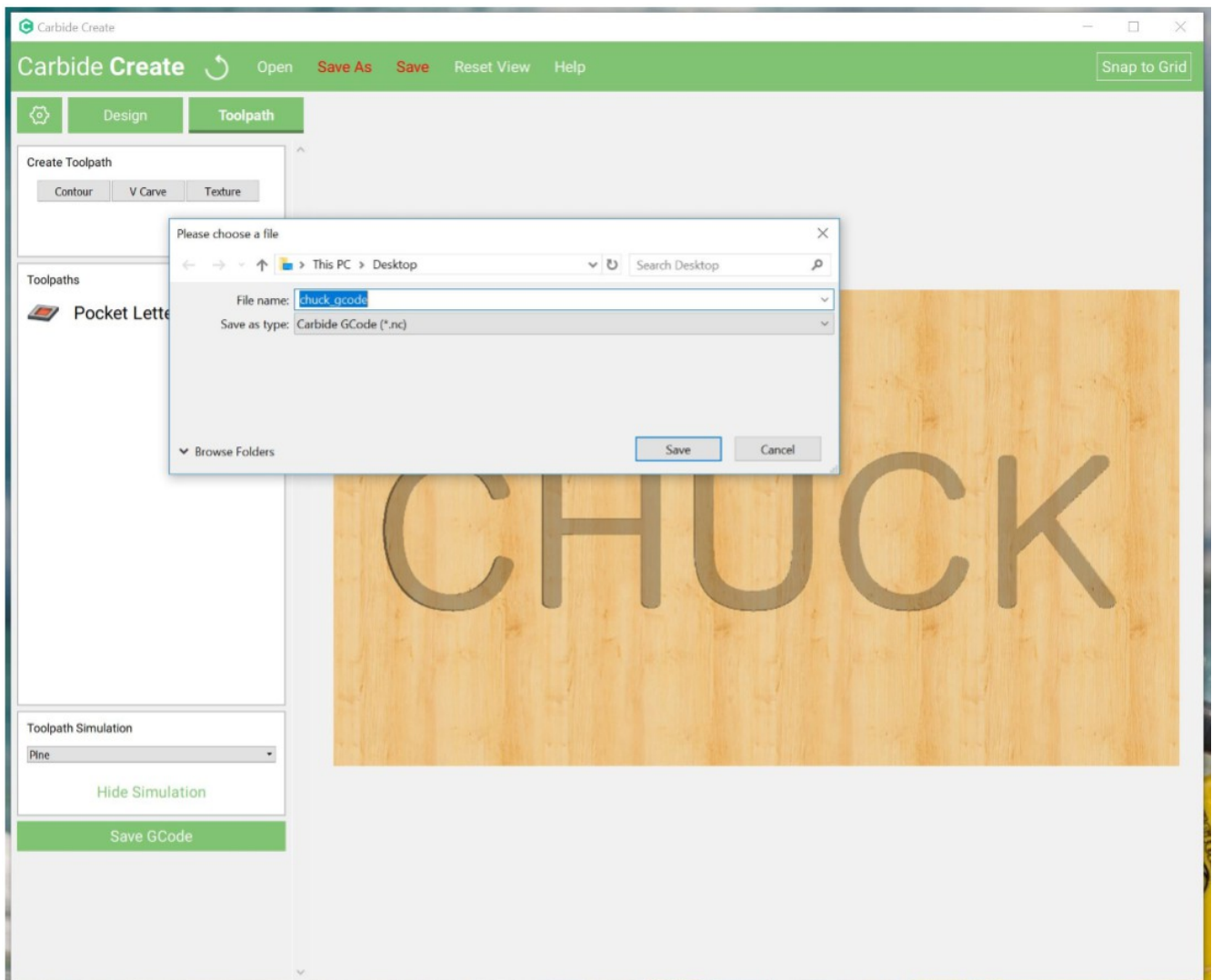
Now click the Show Simulation as seen below "pine" on the screen in the image shown below.



The resulting screen will look similar to the screen as shown in the image below.

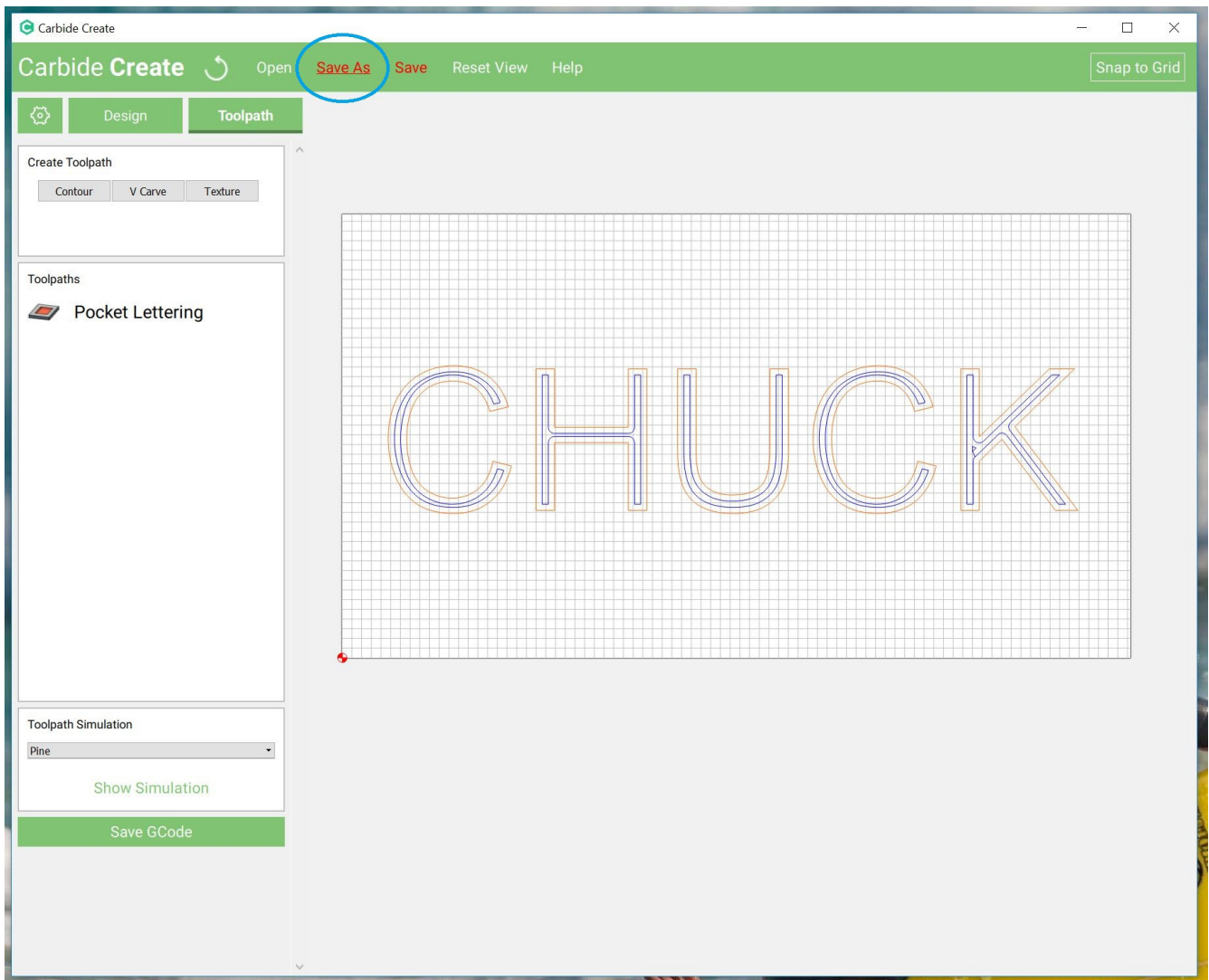


Now click the Save GCode button at the bottom to save the file that Carbide Motion will use. Your screen will look similar to the image shown below. Save the file to a location you will be able to browse to in Carbide Motion.



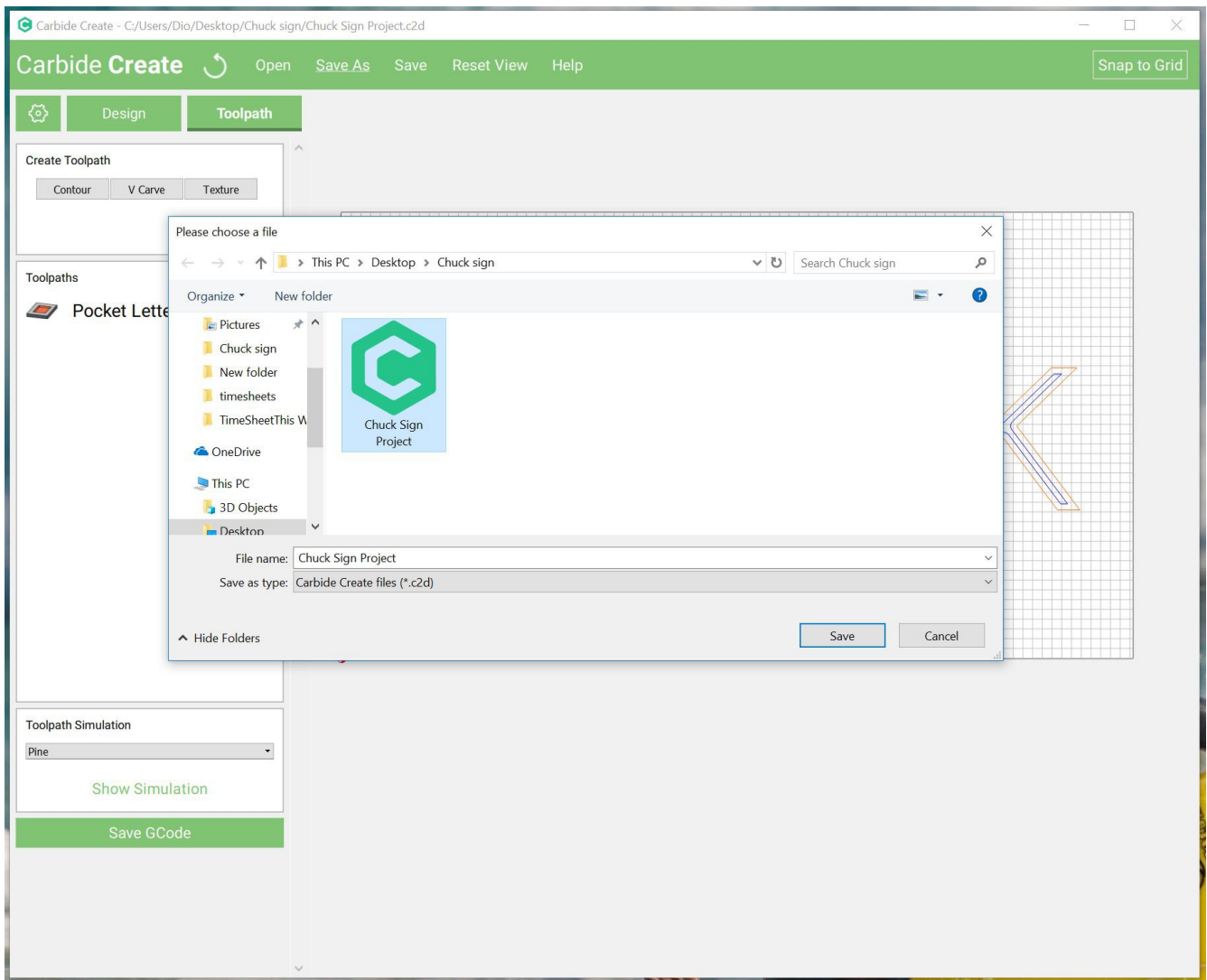
We have saved the Gcode but now let's save the project as well. Click the Save as at the top of the screen as shown circled in blue as shown in the image below.





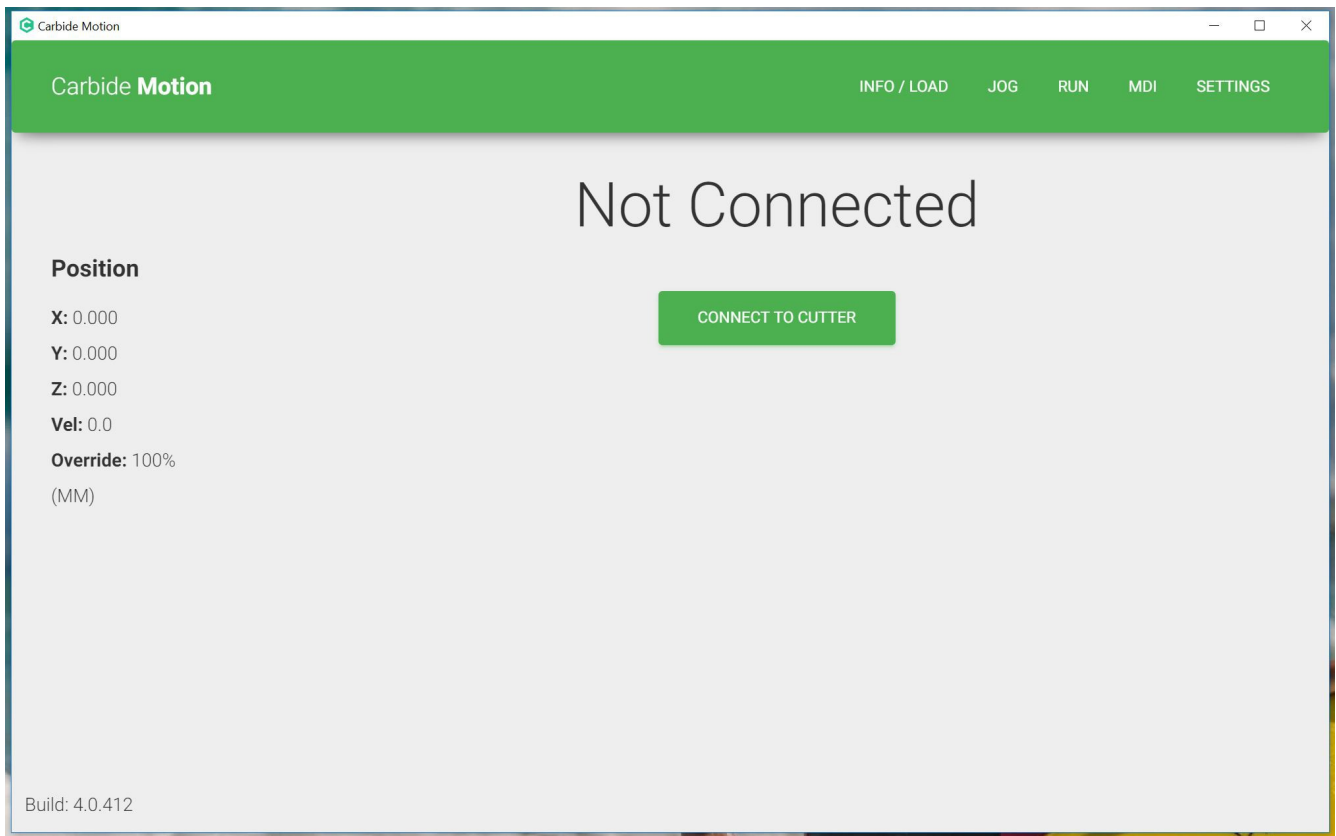
The resulting screen should look similar to the one shown in the image below. Type the name of the save file and save to a location you will be able to retrieve the file in the future for other lessons. Click Save to save the file and close carbide create.



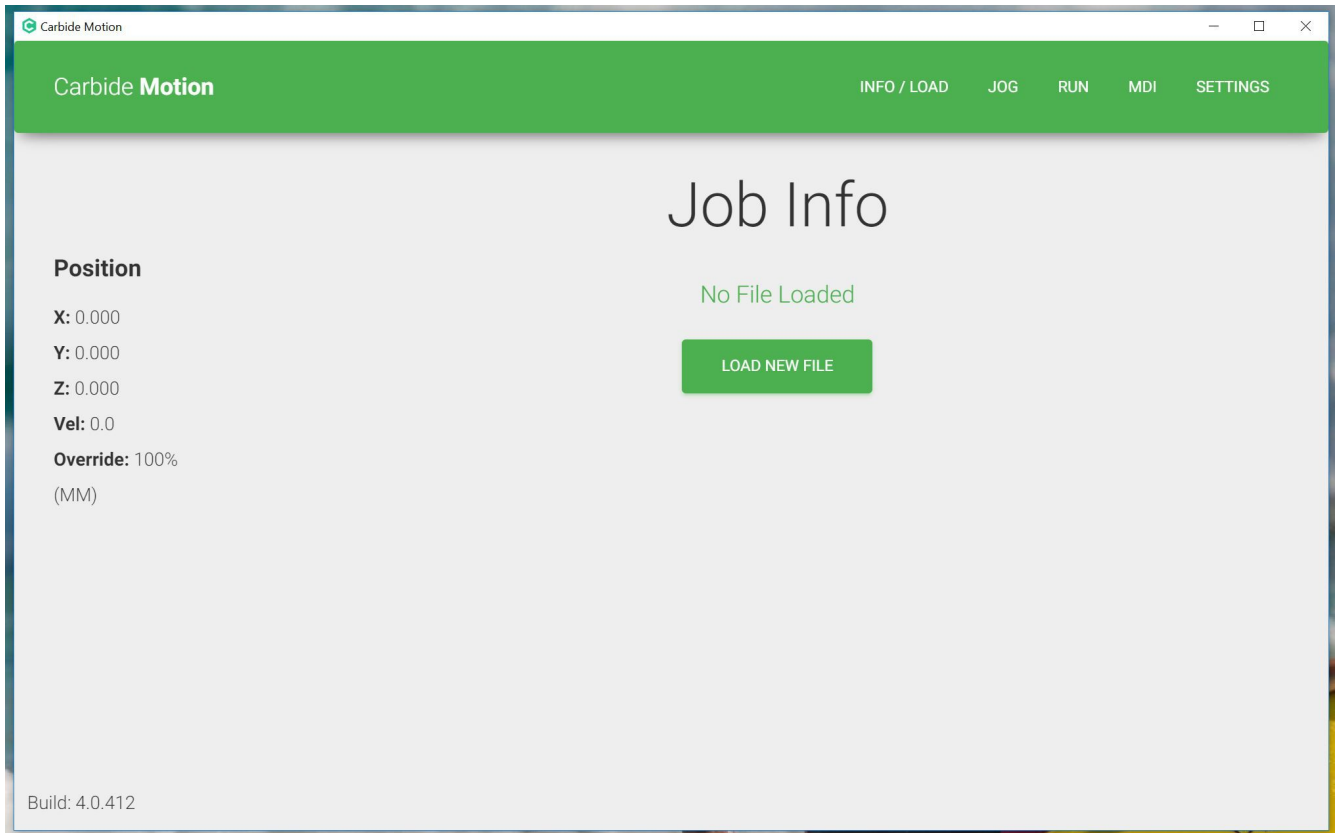


Now before continuing place your stock on the Shapeoko. If you are using tape, I used at least 5 strips to hold my work. Secure your stock to the waste board and continue.

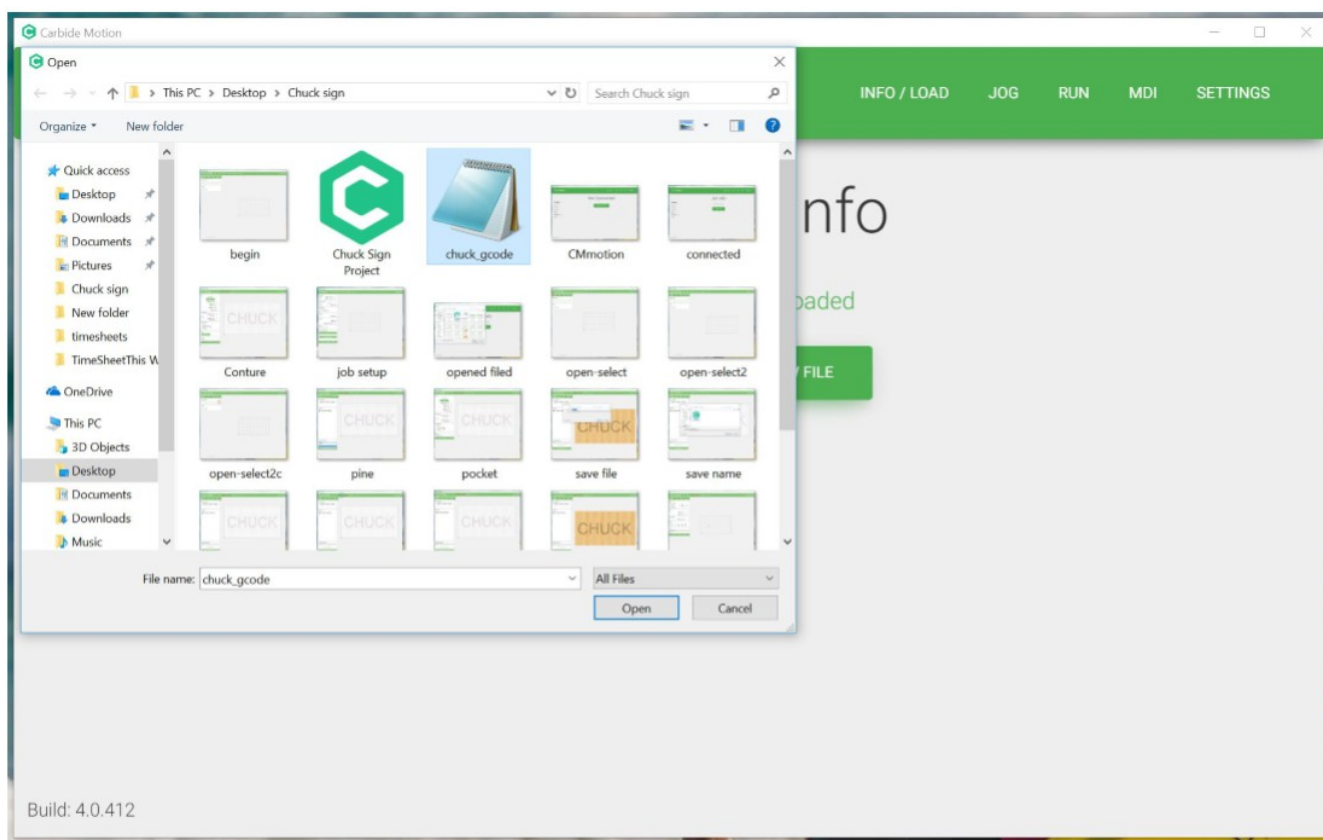
You may want to put your 1/4 inch EndMill in the router now. Now open Carbide Motion your screen will look similar to the image shown below.



Click on Connect to cutter. Your screen will look similar to the image shown below.

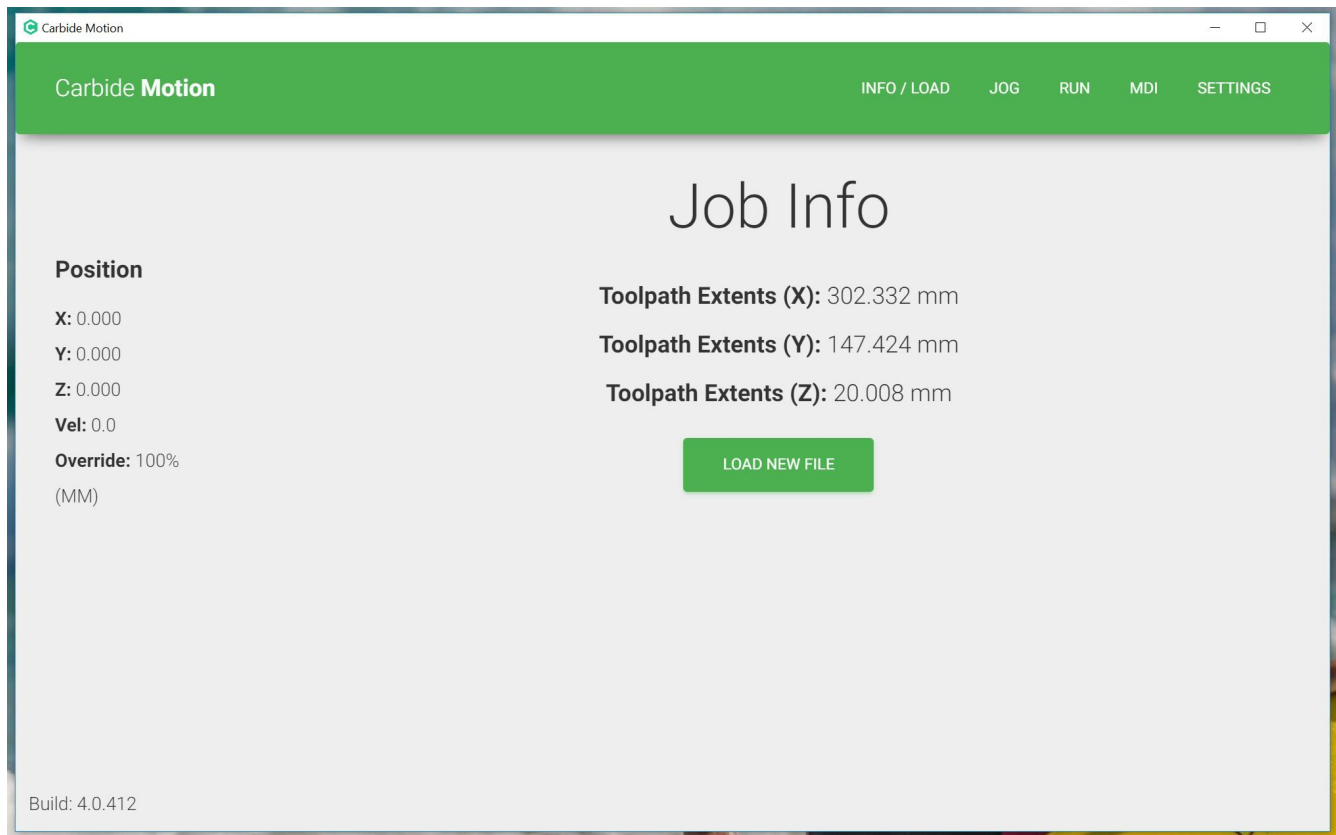


Click Load New File. Your screen will look similar to the image shown below.



Now select the Gcode file you previously saved and click Open.

The file is now loaded. Your screen will look similar to the image shown below.



Before running the file you will need to jog the machine, initialize, set zero and touch off. The steps for this are the same and in the Hello World tutorial. You are going to touch off the lower left corner of your stock. If you need to review those steps they Can be found here.

<http://docs.carbide3d.com/tutorials/hello-world/#home-machine>

You can skip the load file as we have already done that. You can run right after touching off.