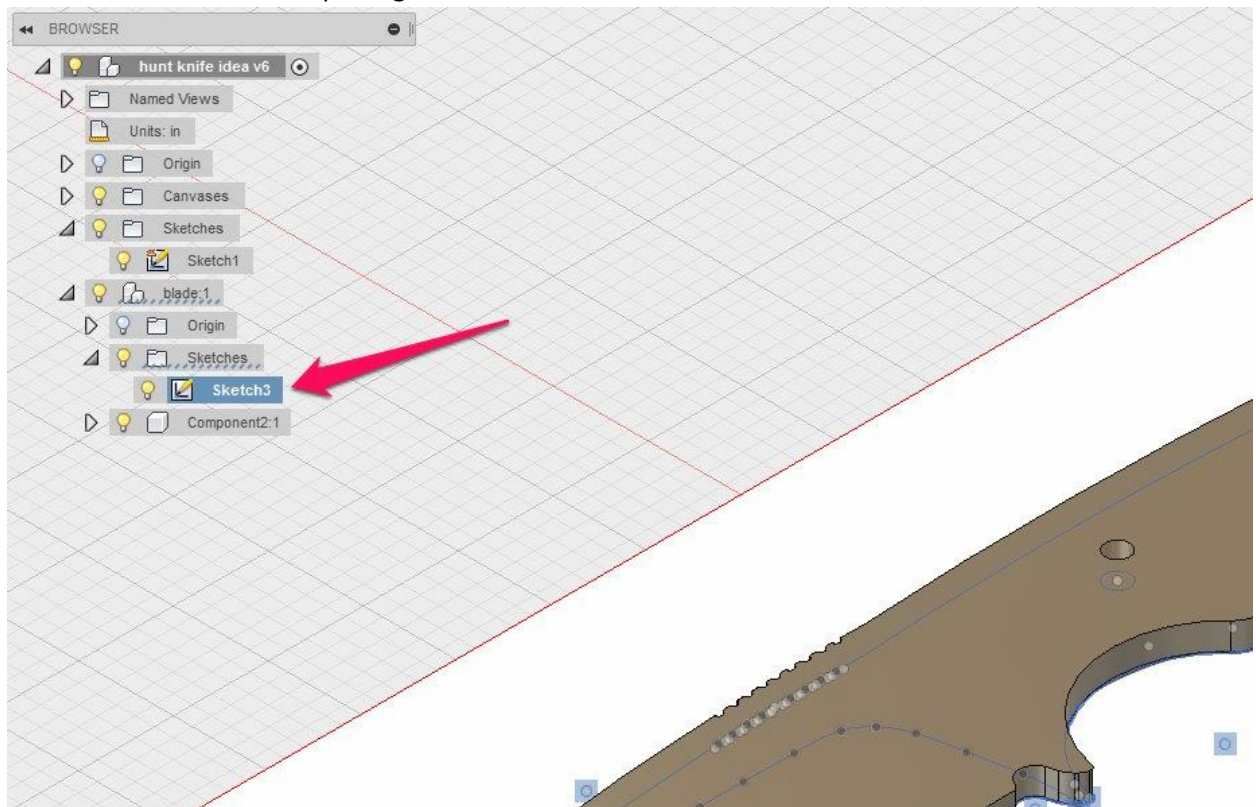


Fusion 360 to Glowforge workflow

A work in progress

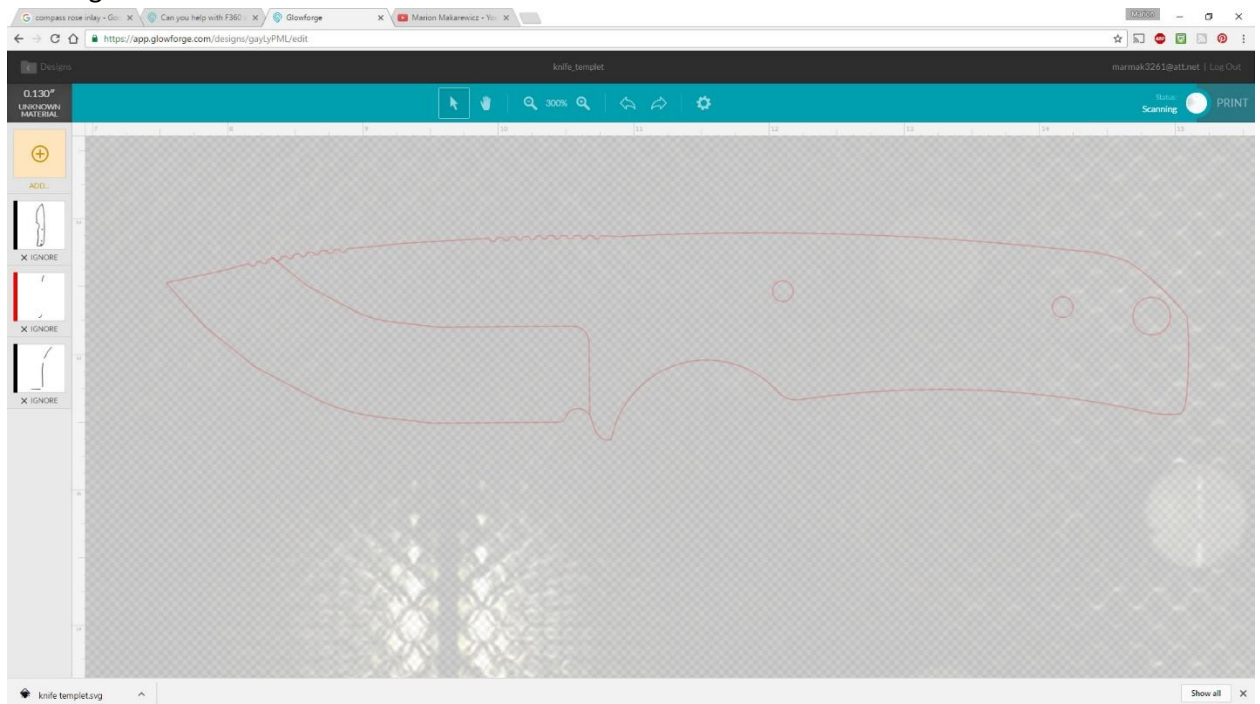
With the help of Marion aka Marmak3261, I am attempting to write up the workflow for going from Fusion 360 to the Glowforge as it stands as of now.

- As of this writing, the only file type that the Glowforge software accepts is SVG
- F360 does not output SVG
- An intermediate step is needed due to the above
- F360 can output several file types but DXF preserves the most information and is the easiest for what we are doing so we will use it
- Some planning will save headaches down the road
 - Put everything that will be in a part going to the Glowforge on a single sketch
 - I failed to do this even on this simple example and had to do some backtracking
- Once you have everything ready in F360, exporting a DXF is a simple matter of right-clicking the sketch in the browser and picking “save as DXF”

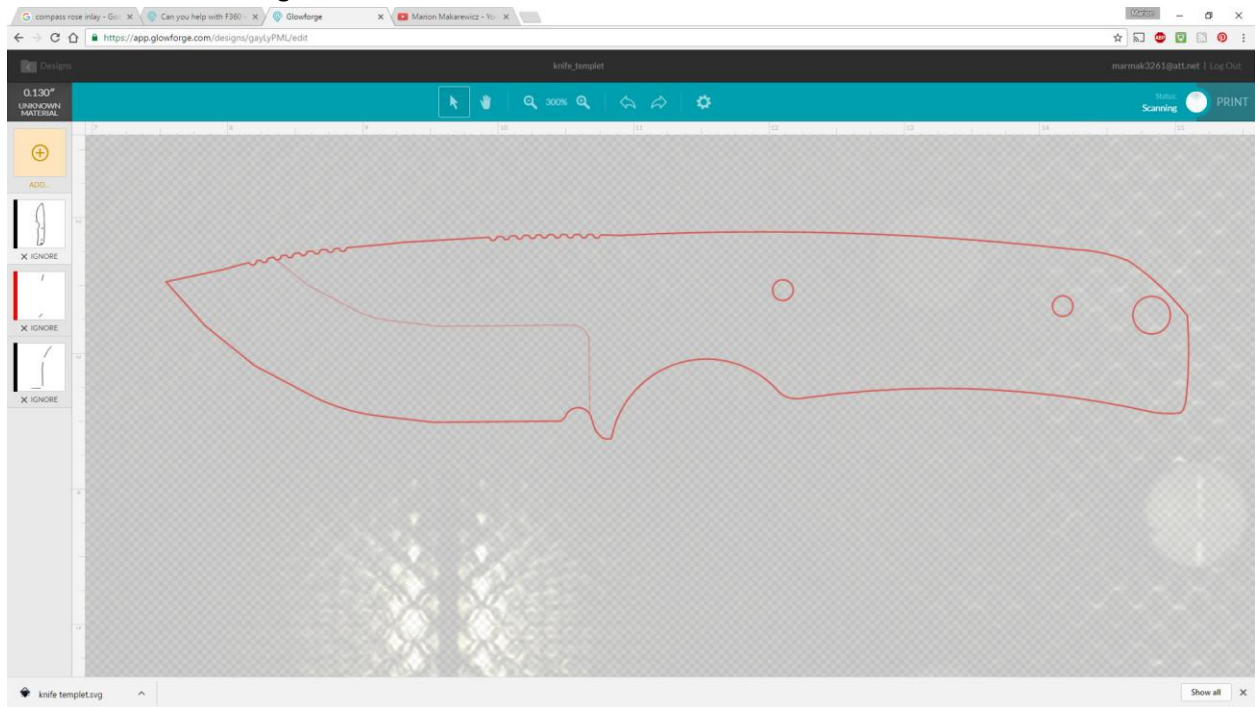


- From the dialog pick a name and a location for your DXF file

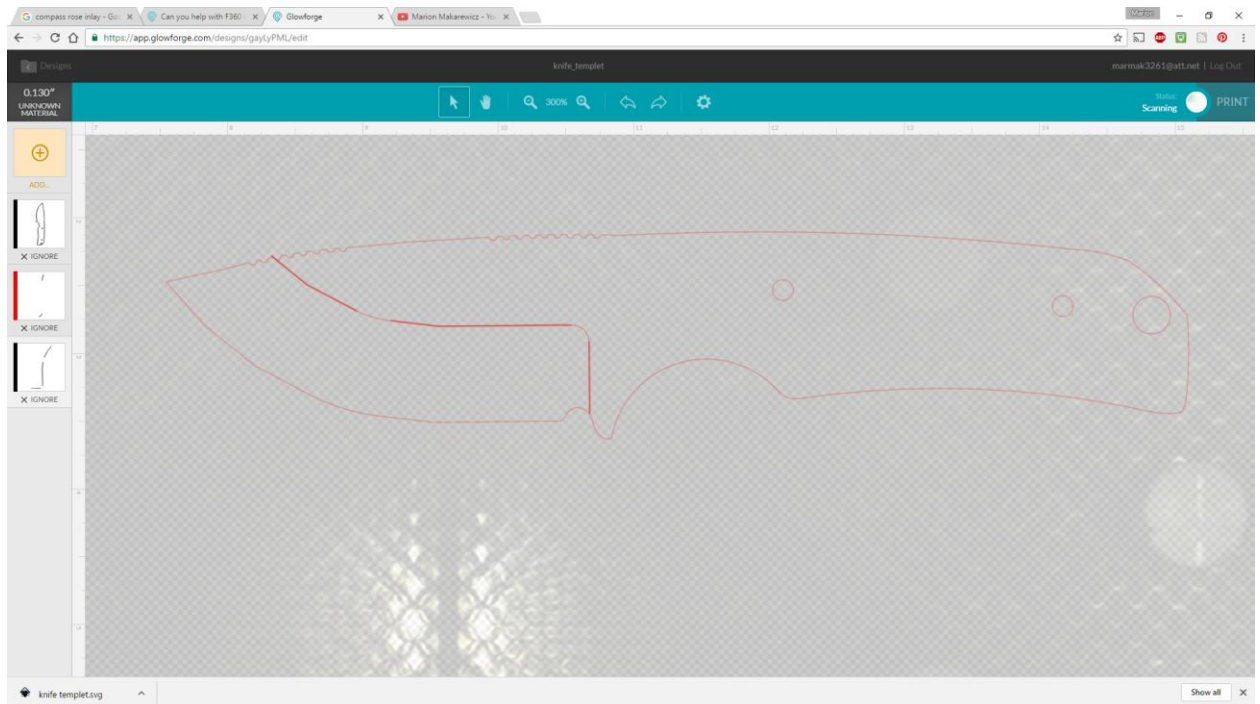
- I like to save to the desktop so I can simply drag and drop to Inkscape
- Now open the DXF file in any graphics program that will read DXF and output SVG
 - For this example, we will use Inkscape
 - If you are using something else the rest may or may not apply as general reference
- In Inkscape, look for any lines that are broken, this one had the now blue line as several small segments
 - This will print but will start and stop so join any segments that should print as one operation.
- Pick colors for the lines per operation
 - Everything will be black as default coming from the DXF
 - For this example, we will use red for cutting and blue for scoring.
 - Marion has advised me that it is best to reserve black for raster engraving
- Nothing selected



- Red selected for cutting



- Blue selected for scoring



- Notice how not all the score line is selected?
 - Therefore we need to join all lines that will be one operation
- Here is the finished templet on a piece of scrap, you can see in the scoring where the lines needed to be joined. If satisfied with this shape it would be cut into a piece of 1/8"

plywood and used to trace out the knife on steel stock.





