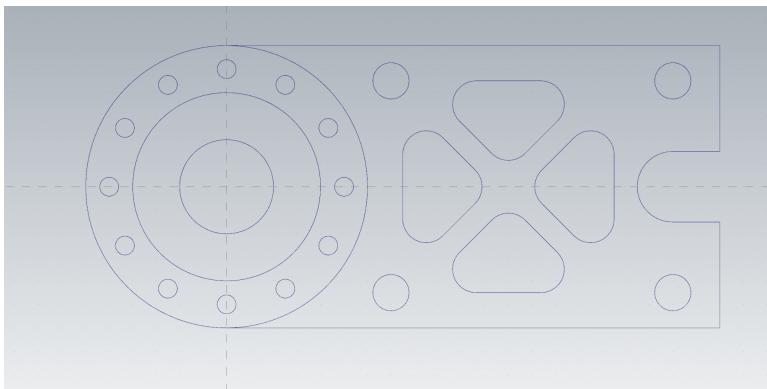
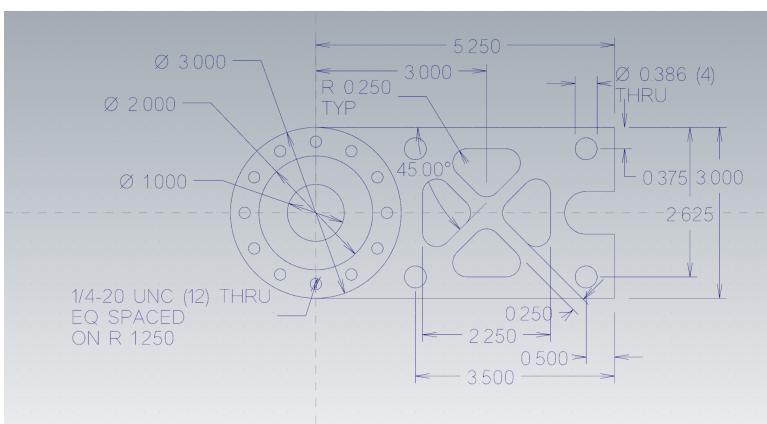


CCET 3680
Mill Lesson 7 Second Exercise

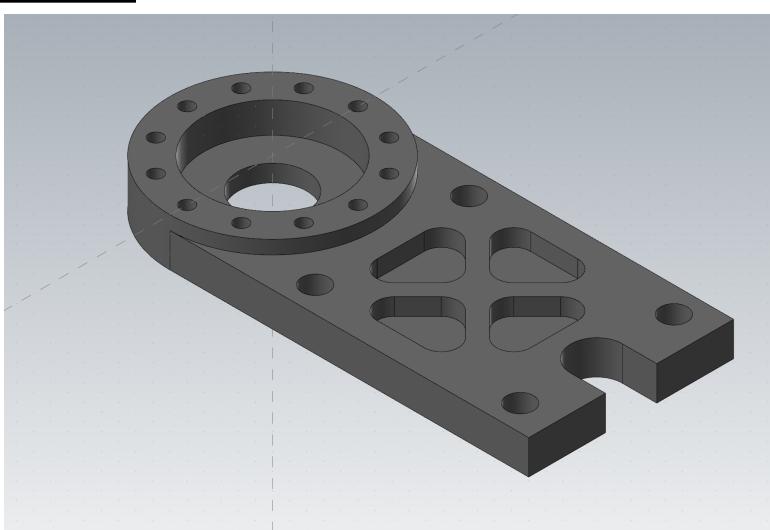
I. Wireframe:



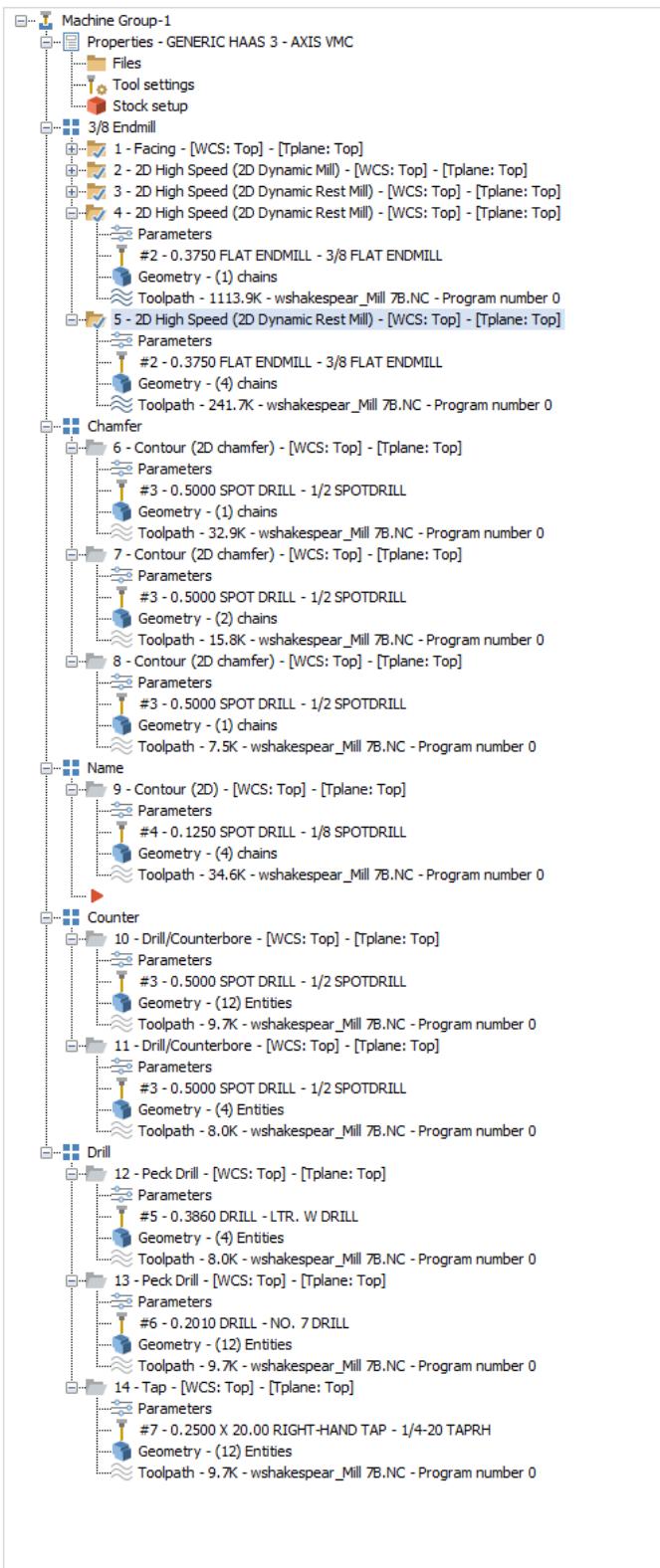
II. Dimensions:



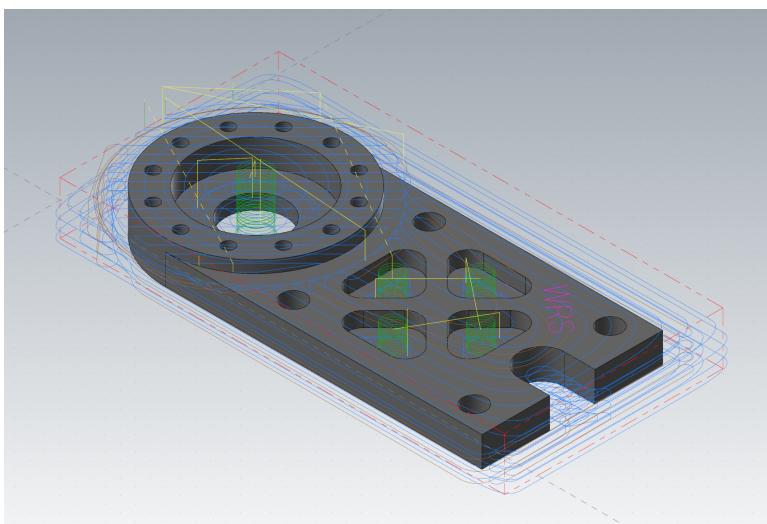
III. Solid:



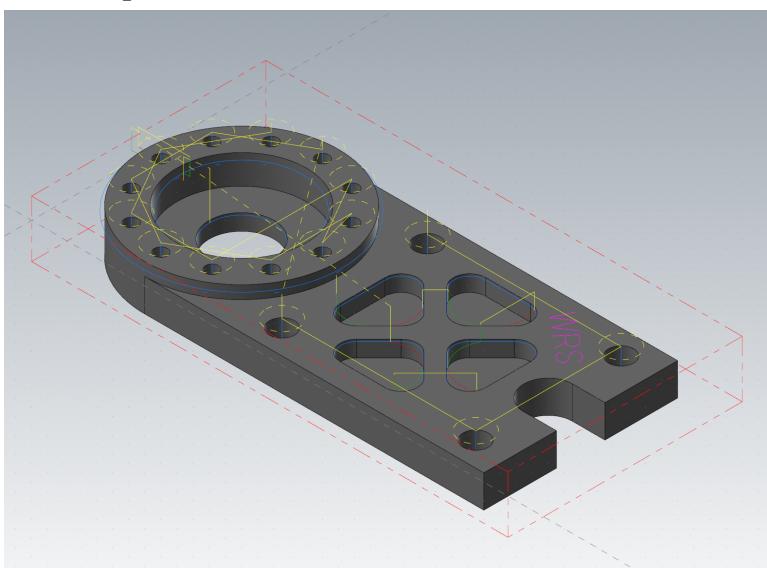
IV. Toolpaths:



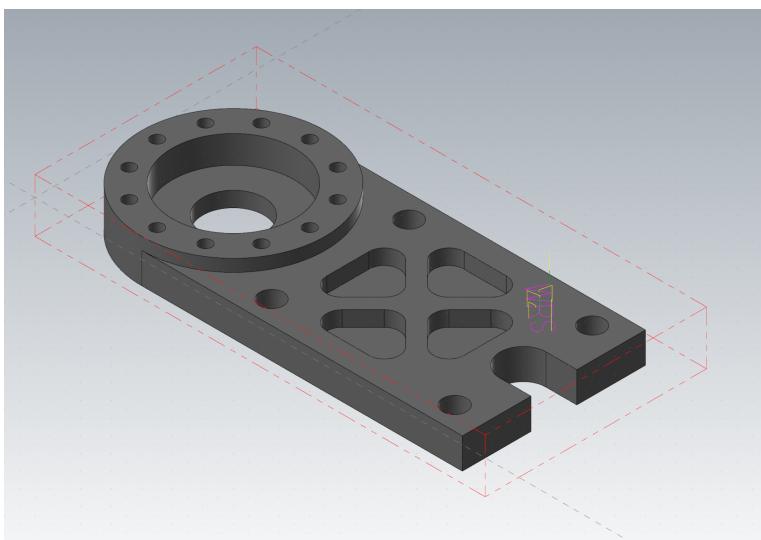
V. $\frac{3}{8}$ " Endmill:



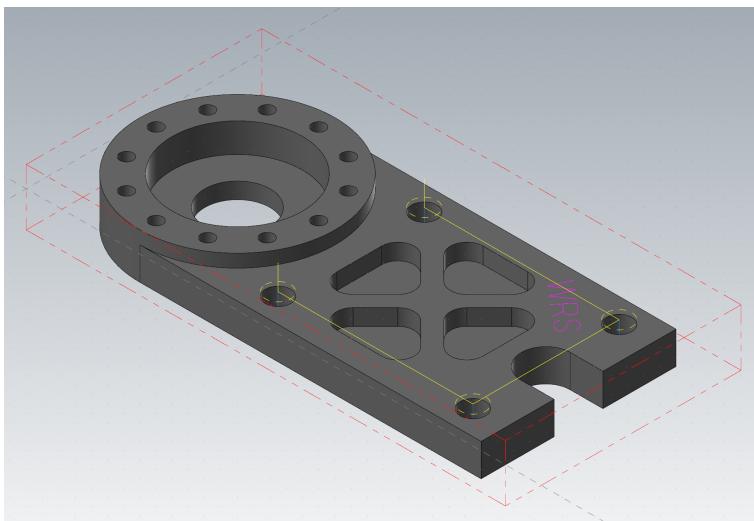
VI. $\frac{1}{2}$ " Spot Drill:



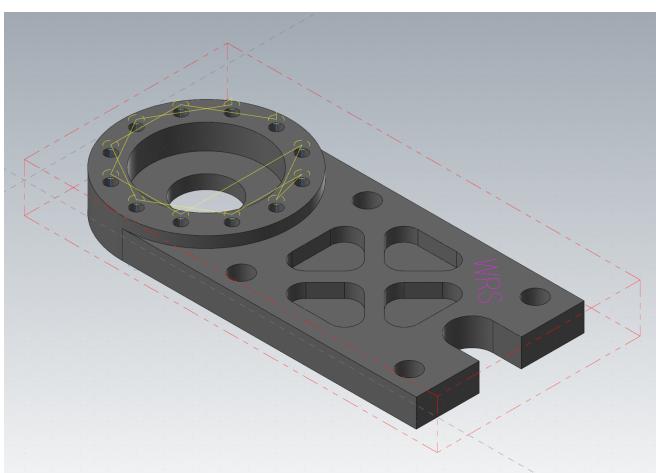
VII. $\frac{1}{8}$ " Spot Drill:



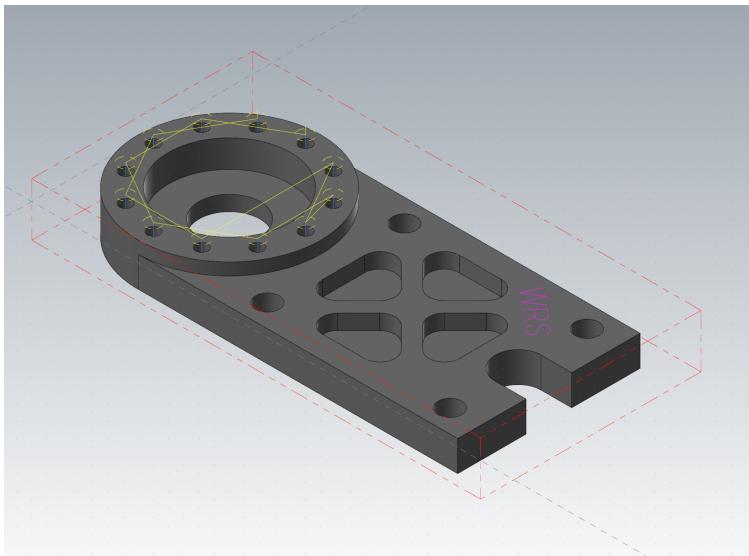
VIII. W Drill:



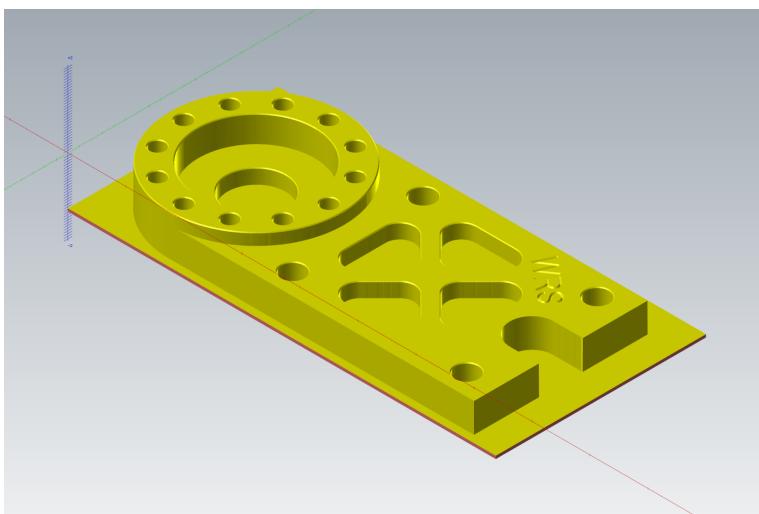
IX. 7 Drill:



X. ¼-20 RH Tap:



XIV. Final Solid:



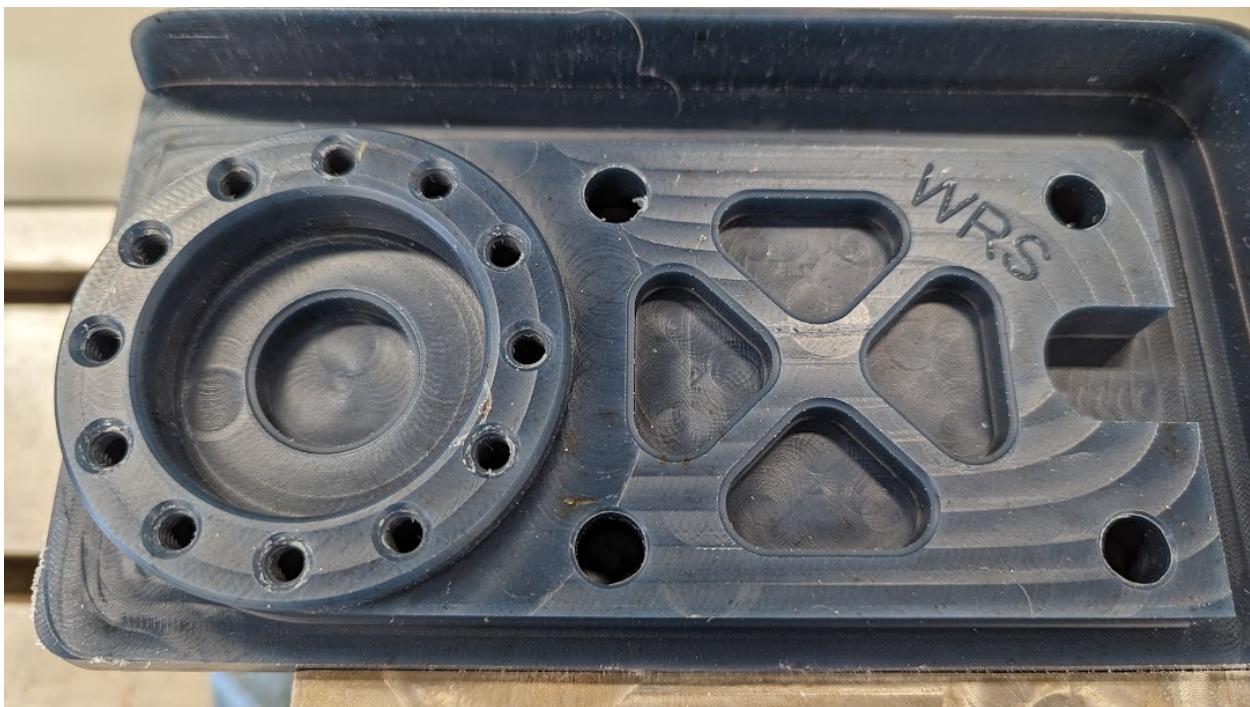
XV. Method:

To draw this part I positioned the circles around the origin and drew the details in. I used a polar copy to add the rest of the pockets after drawing the first one with tangent circles and lines. Then I moved the part to the wanted location.

XIV. GCode Changes

To modify my gcode to be compatible with the machine I first made sure the HAAS 3 axis post processor was selected when exporting the gcode. Then I removed the long lines at the beginning and edited the last G28 home command to not zero the x axis.

XV. Finished Part



XVI. Quality Report

Outside X: 3.0015in

Outside Y: 6.7565in

Large hole diameter: 1.9995"