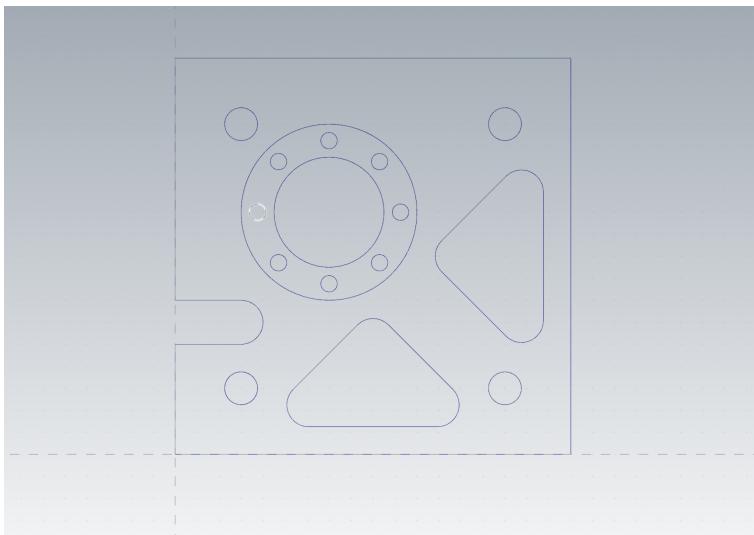
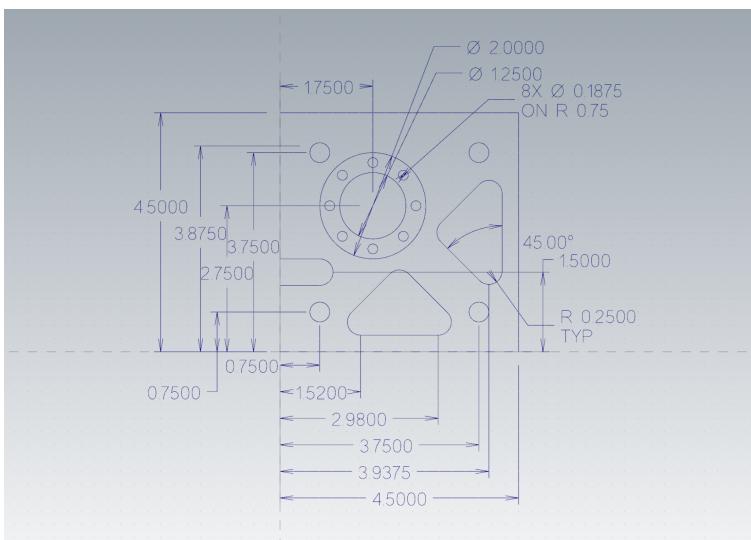


CCET 3680
Mill Lesson 6 Tutorial

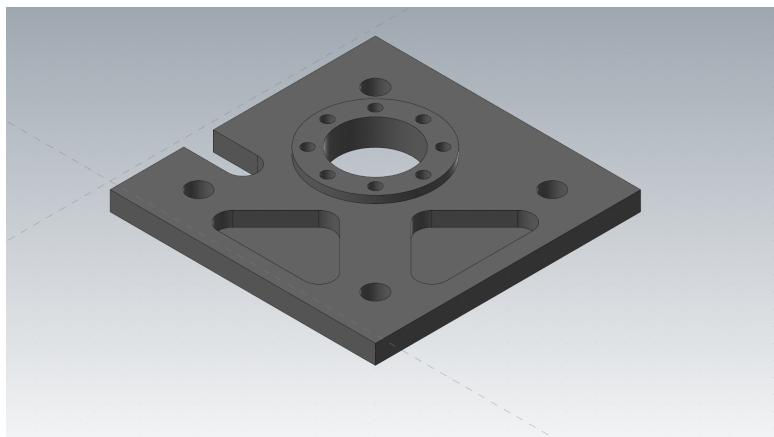
I. Wireframe:



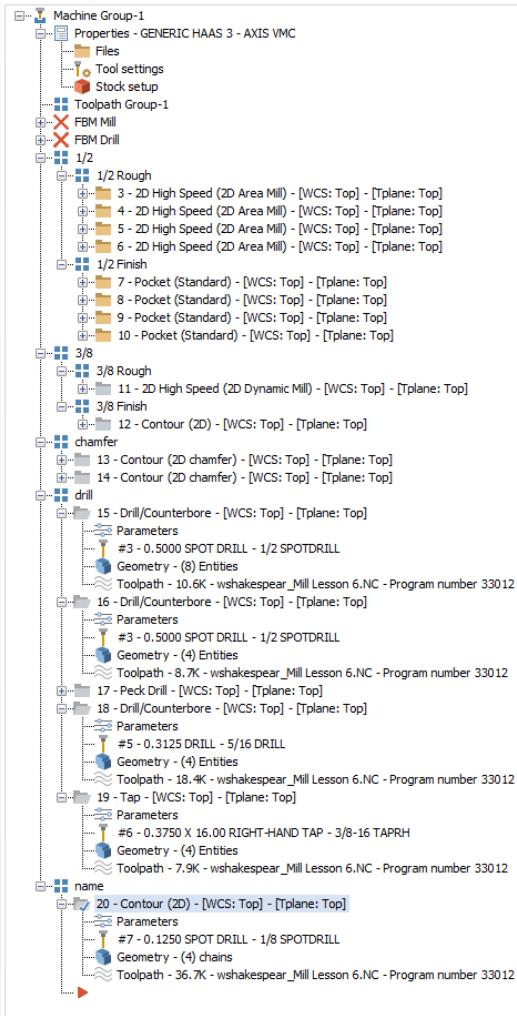
II. Dimensions:



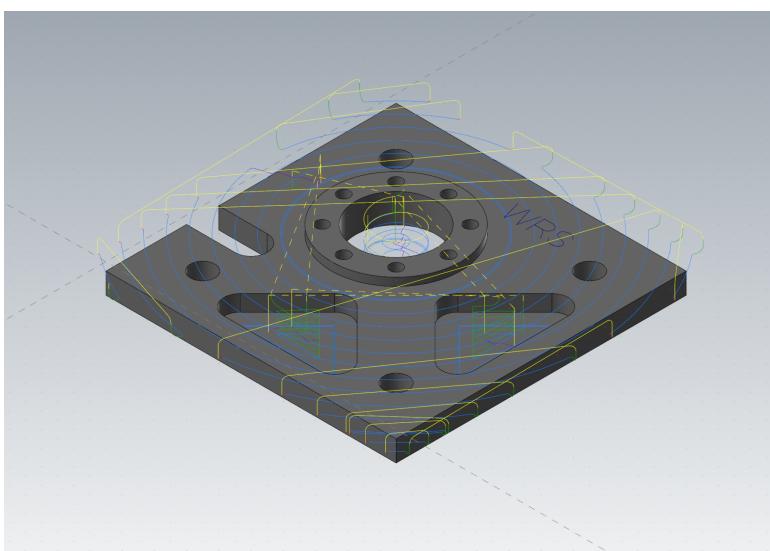
III. Solid:



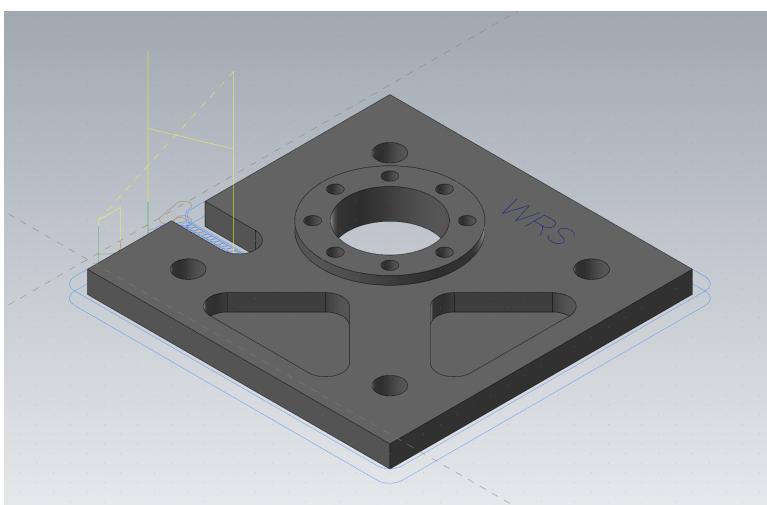
IV. Toolpaths:



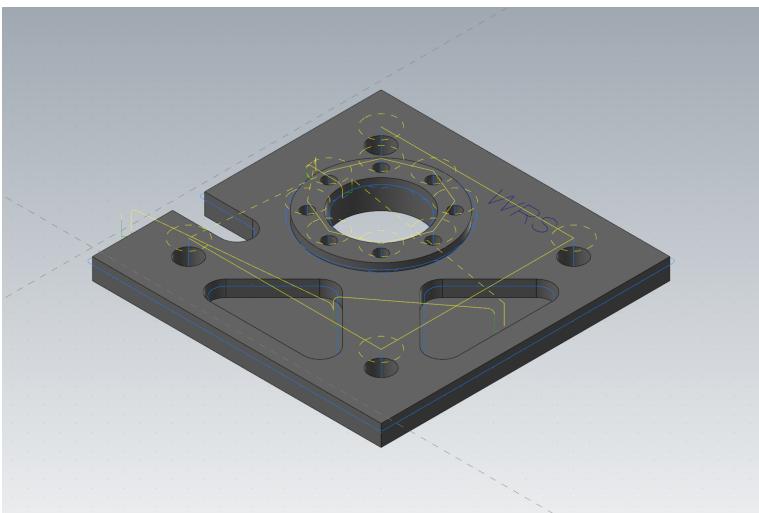
V. $\frac{1}{2}$ " Endmill:



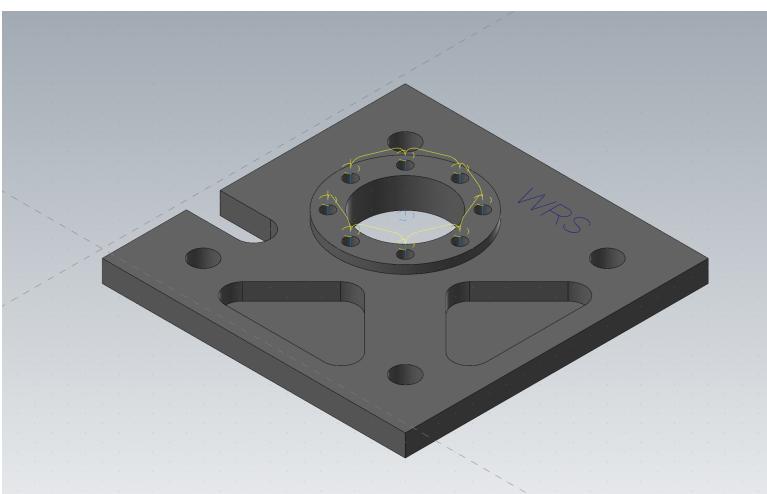
VI. $\frac{3}{8}$ " Endmill:



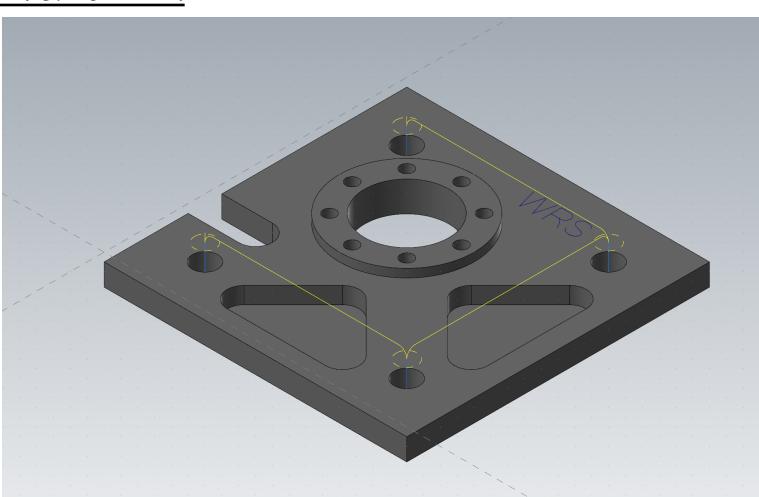
VII. $\frac{1}{2}$ " Spot Drill:



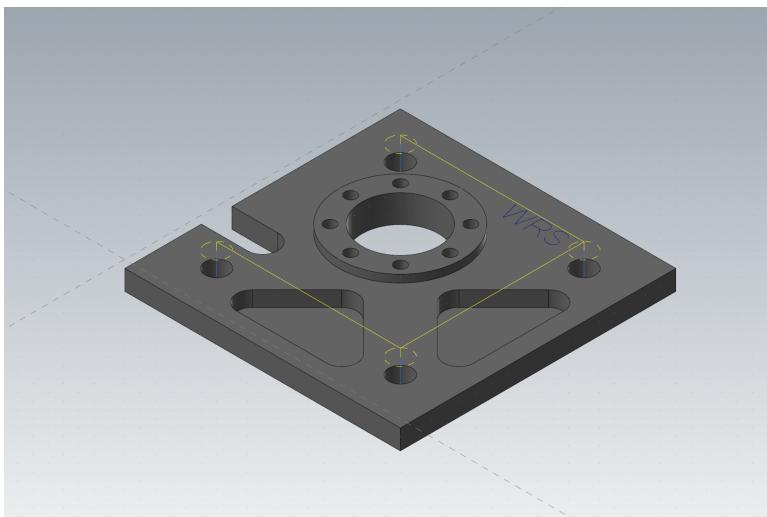
VIII. $\frac{3}{16}$ " Drill:



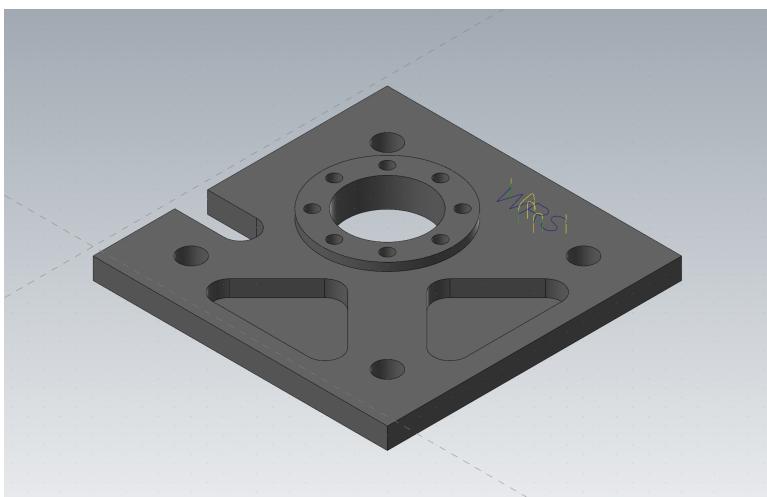
X. $\frac{5}{16}$ Drill:



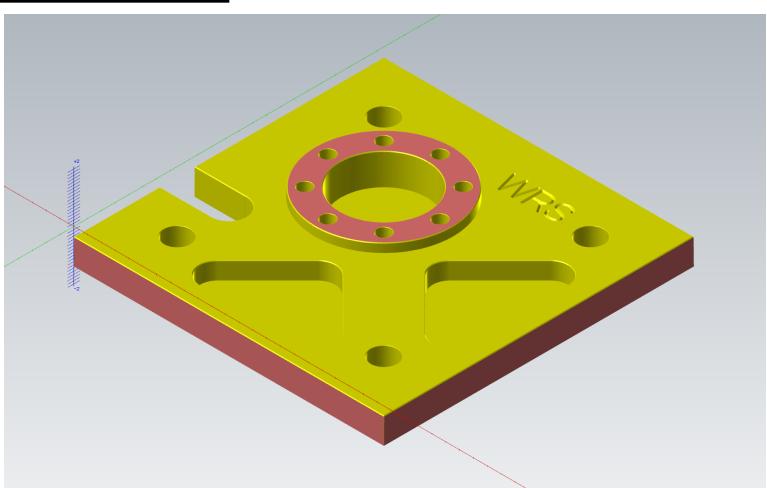
X. $\frac{3}{8}$ -16 RH Tap:



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



XII. Final Solid:



XIII. Method:

I followed the tutorial on this one as well for the geometry and for the toolpaths.

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: 4.5025in

Outside Y: 4.1790in

Large hole diameter: 1.2475in

XVII. Mating Parts



Report by Weston Shakespear
Spring 2023