CNC Silhouette sign Brainstorming

Search terms:

- BMW Logo
- CU Buffs Logo

Takeaways

- Logo will be CU Buffs
- Graphics will be bold and cool
- I was the CU to be extruded more up and the buffalo to be more down and the horn to be even more down
- Details can not be too small because I only have access to a ¼ bit.
- This piece will be a gift to my bro for his room so the scale will be in the 12”x12” range
- Will use paint and acrylic to add finishing touches

Project Plan Checklist

- ☐ Use illustrator to create design
  - ☐ Because I'm going to put this on a door I think a good size is roughly 12x12
  - ☐ Insert CU Logo
  - ☐ Create the sketch in illustrator
  - ☐ Duplicate design after assembling so that I can go back and edit if needed.
  - ☐ Shape build to create piece
  - ☐ Export as DXF
- ☐ CAD
  - ☐ Extrude the overall design in the negative direction the same as the thickness of my material - so that my linework is on top of the 3D model.
  - ☐ Extrude any details down to partial depths

- [ ]
- [ ] CAM
    - [ ] Create a new set-up
        - [ ] Define size of stock
        - [ ] Identify my model
        - [ ] Choose a stock box point as my 0,0,0 location
    - [ ] Import tool library
    - [ ] Import post processor
    - [ ] Create a 2D Contour tool path
        - [ ] Select silhouette edge
        - [ ] Select ¼ bit
        - [ ] Select multiple step downs (.125)
- [ ] Simulate
- [ ] Post process
    - [ ] Name file
- [ ] Email to Makerpace@dawsonschool.org
- [ ] Running the job
    - [ ] Download Gcode on CNC Computer
    - [ ] Mount plywood on CNC using green tape and CA Glue
    - [ ] Load job into control software
    - [ ] Set X,Y,Z zeros
    - [ ] Make sure the air compressor is on
    - [ ] Run job
- [ ] Post processing
    - [ ] Remove from CNC
    - [ ] Sand
    - [ ] Paint
- [ ] Laser cutting details
    - [ ] Round any inside corners to match the output of the CNC
    - [ ] Set line thickness to .001
    - [ ] Turn off layers I dont want to laser cut
    - [ ] Print job
        - [ ] Follow tutorial to send job to laser
        - [ ] Focus to my material
        - [ ] Turn on fans
    - [ ] Glue pieces into the CNC cut wood backing