

Journal 09

Date: 2/5/18 Class 10:00-11:25

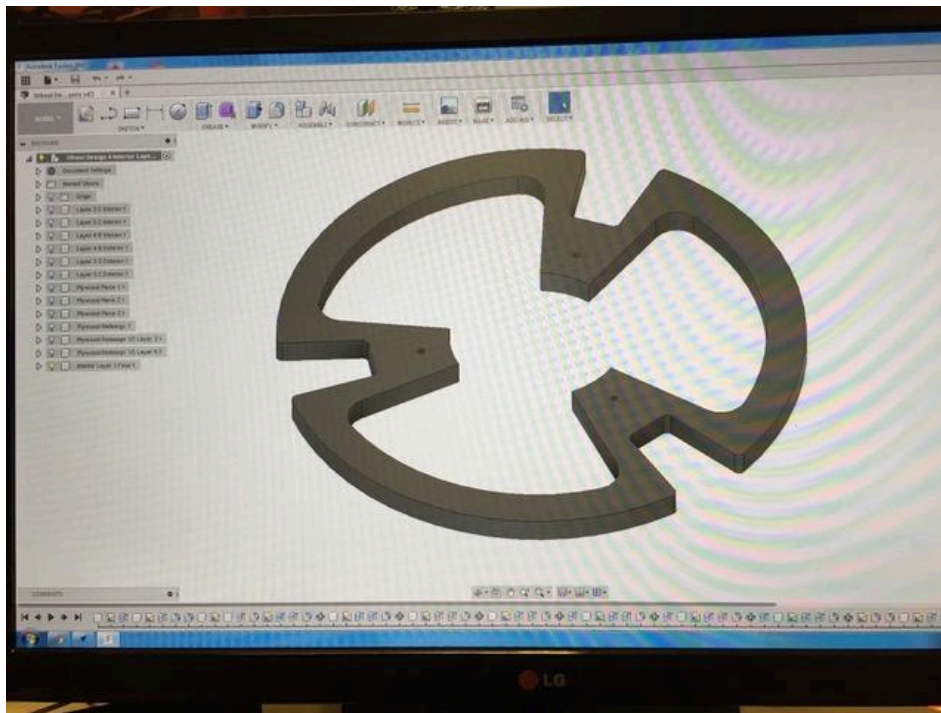
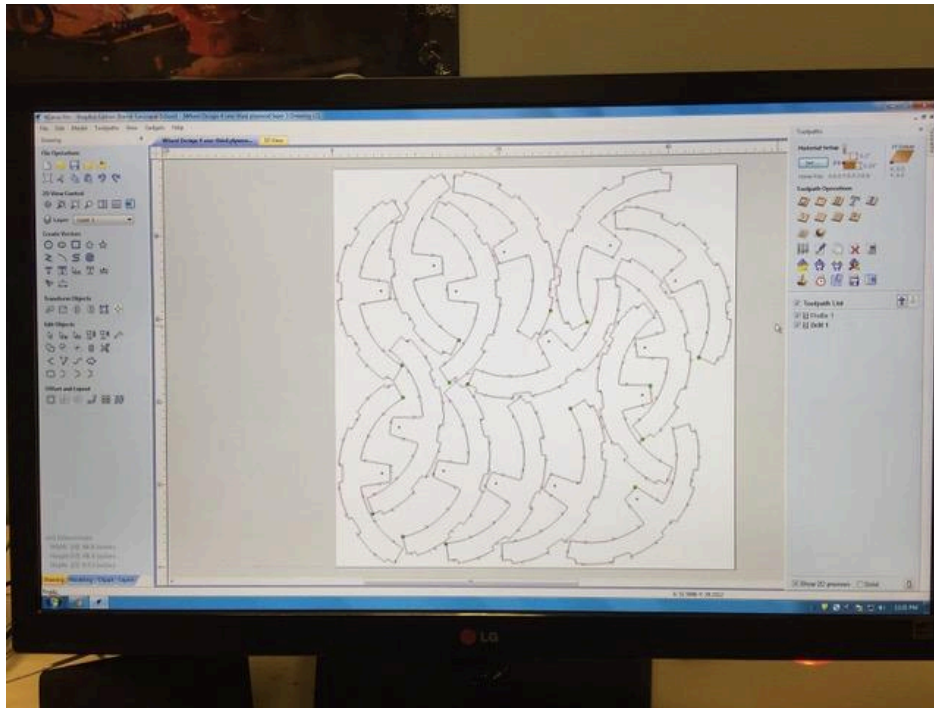
Team Members Involved: Ryan, Kavita, Mr. Cribbs, Grant

What I did:

- Cut plywood part of Layer 3 into 3 chunks on Fusion and made a shopbot file with the thirds fit onto a 48" x 48" with help of Mr. Cribbs
 - Ended up being 5 plywood layers we can cut out(15 thirds)
- Redesigned the cardboard portion of Layer 3 and 5 to fit the new plywood design
- Helped Grant cut full plywood sheets into 4'x4' sheets

What I learned:

I learned how to use VCarve and how to nest things into a sheet of a specific size. I also learned how to toolpath these shapes and put tabs in so chunks don't fly off during the cutting. This will help the Rover team in the future because the more tools we know how to use, such as the CNC, the more opportunity we have of finding alternative solutions to problems. This will also help because we need the CNC to cut out the plywood for the interior layers.



Date: 2/7/18 Class 10:00-11:25

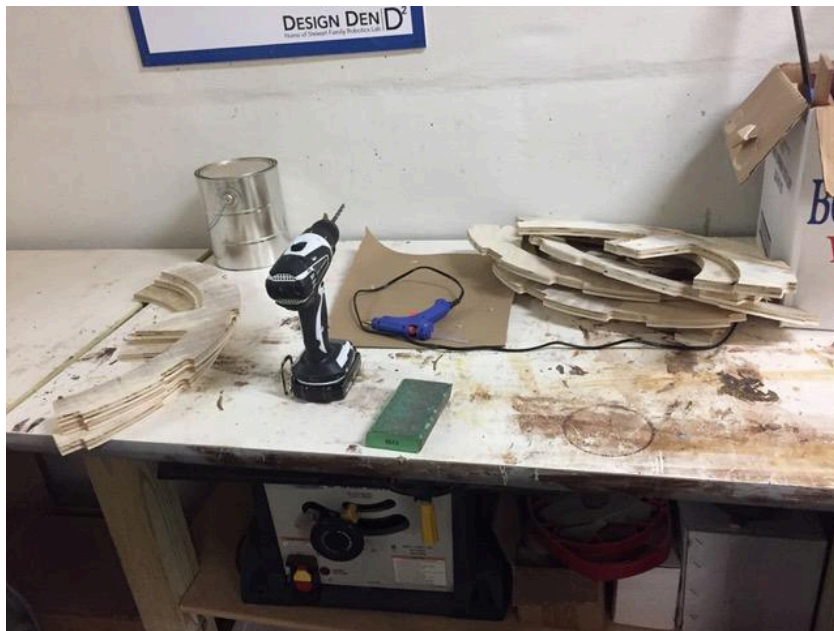
Team Members Involved: Ryan, Kavita, Grant, Mr. Cribbs

What I did:

- Cut out Layer 3 plywood parts on the CNC Router
- Sanded the thirds down and give them smooth surfaces
- Kavita glued together Layers 1,2,3, and 4

What I Learned:

I learned a little more from Mr. Cribbs on how the CNC Router works. He taught me how to exchange drill bits on the CNC. This will help us in the future, because one day, I hope to be cutting out various parts that are helpful to the Rover.



Date: 2/9/18 Class 10:00-11:45

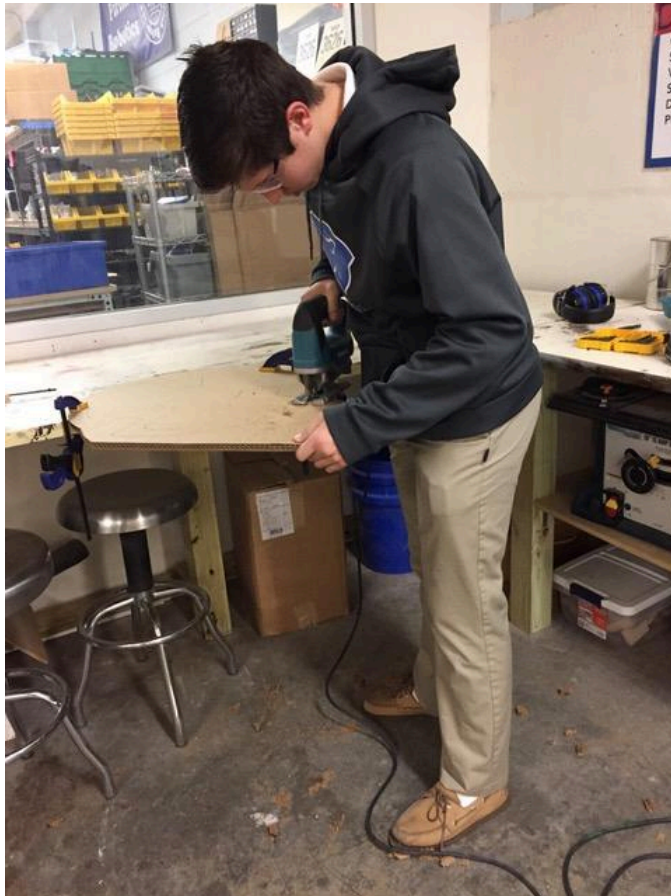
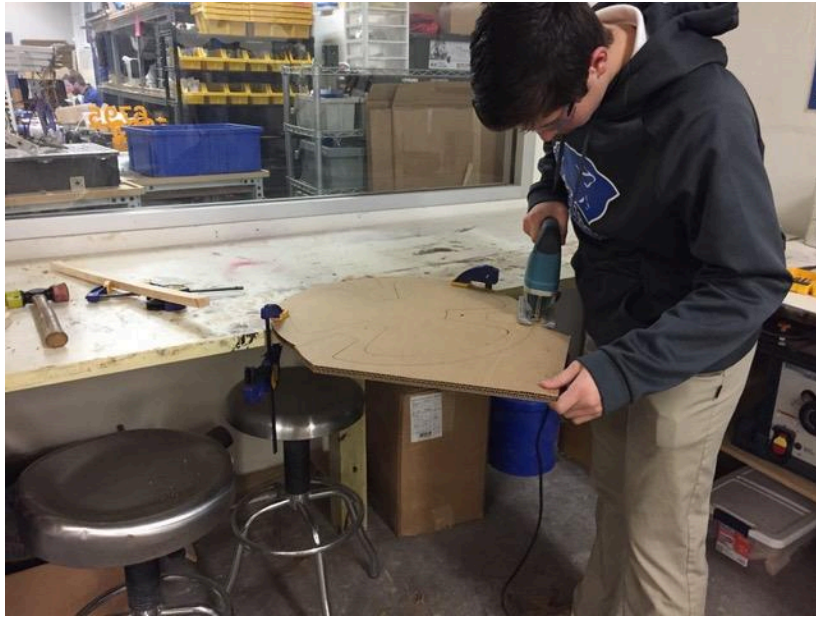
Team Members Involved: Ryan, Grant, Emma, Mary

What I did:

- Jigsawed out wheels while Mary and Emma cut them out on the laser cutter
- After Grant finished with a refurb meeting, he came and helped jigsaw wheels out as well

What I learned:

I learned that even though I am the captain of the wheel team, I still need to do the dirty work, such as jigsawing. It is always nice to get away from the computers and get your hands dirty once in a while. This will help me in the future because it will keep me humble and not feeling above any other teammates.



Date: 2/10/18 Saturday Work Time 11:30-2:00

Team Members Involved: Ryan, Kavita, Mr. Cribbs

What I did:

- Tried to cut out Layer 5 on plywood but failed
 - CNC Router malfunctioned-still looking into that problem
 - Plywood was snapped
 - CNC wouldn't stay on course
 - I accidentally tightened the drill bit on too tight(We got it off though)

What I learned:

I learned that I can't tighten the drill bit on too tight, otherwise it is a pain to get out. I also learned that I always can't trust technology to do its thing because I had left the CNC alone for a while. Luckily, Sohum was there to notice something was wrong and to get me to shut it off. This is a learning experience for the future because now I know I should always keep an eye on the Router.

