

Rover Journals

Kavita Sharma

Journal 09 (2/5, 2/7, 2/9, 2/10)

Due Date: 2/13

Journal Week 09

DATE: 2/5 - class

Team/Group members involved:

Wheel Team

What I did (bulleted work summary):

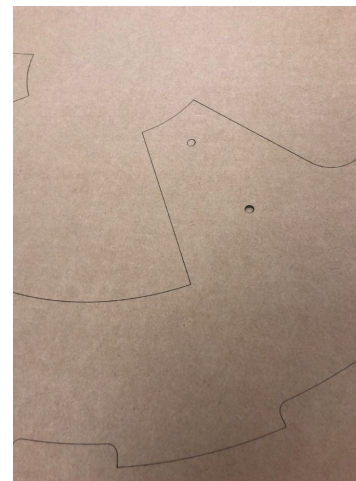
- Cut out layers
- Jig sawed layers
- Glued layers

What I learned:

Today I cut out many layers and jigsawed many layers. We received our order of stronger plywood today and we cut it in 4 pieces to get it ready for the CNC. Good news is that Mr. Cribbs cut out our layer three plywood layers later in the day, which puts us closer to finishing our wheels. There was a small design error on the CAD on the layer where one of the corners on the layer was a right angle instead of a curve. It was easily fixed and the new file was put on smartsheet.

Mistake on the layer 4 design.

Me sanding the new plywood pieces.



DATE: 2/7 - Class

Team/Group members involved:

Wheel team and Cribbs

What I did (bulleted work summary):

- First time glueing with the new plywood

What I learned:

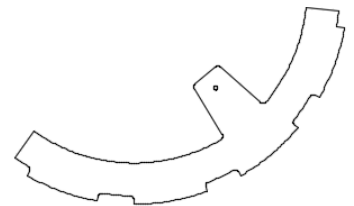
Grant jigsawed the plywood when it was done on the CNC and then Ryan and I sanded the pieces. Cribbs showed Grant and I a new technique when gluing down plywood. He told us that when we glue the plywood layers we should use straight wood glue without water so then it is stronger. We were able to glue layers 1, 2, 3, and 4 today. This is very good for the team because now we can glue all of the layers up to 4 for most of the wheels which would get a big chunk of it done. Ryan was also able to finish the CAD for layer 5 plywood rings so now we can get those cut out on the CNC and get it all glued together. This is different from the 3rd layer plywood because the tooth with the bolt is more on the write instead of right in the middle like in the 3rd.



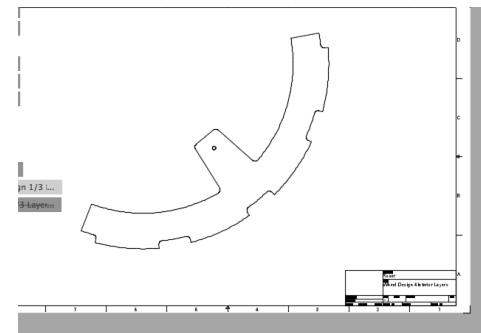
Layers 1, 2, 3, and 4 drying.



Layer 3 plywood after being sanded.



Drawing for layer 5 plywood.



Drawing for layer 3 plywood.

DATE: 2/9 - Class

Team/Group members involved:

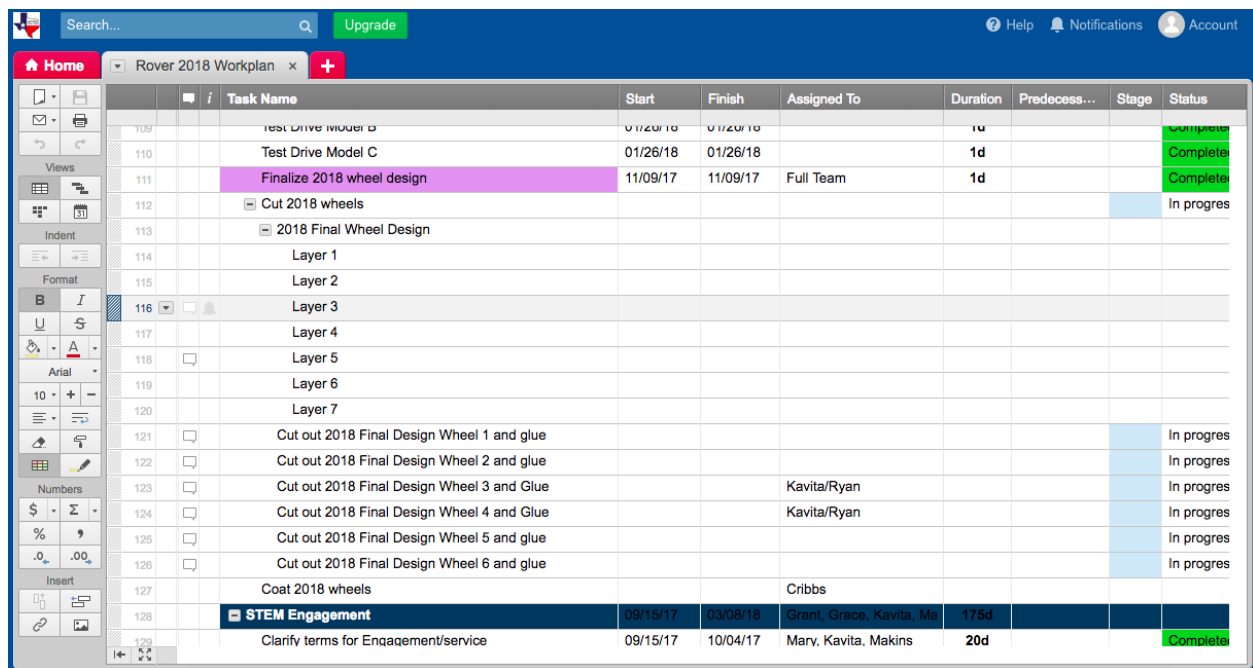
Wheel team and Cribbs

What I did (bulleted work summary):

- Glued two more wheels of layers 1, 2, 3, and 4

What I learned:

In order for us to get all the wheels done by the end of the trimester, we need people to come during their free periods and cut out wheels. We added a new section on Smartsheet with all the new files for the 2018 wheels. All the files are there for whoever wants to cut out layers on the laser printer.



The screenshot shows a Smartsheet interface for a project titled "Rover 2018 Workplan". The interface includes a top navigation bar with a search bar, an "Upgrade" button, and links for "Help", "Notifications", and "Account". A left sidebar contains various toolbars for "Views", "Indent", "Format", "Numbers", and "Insert". The main area displays a task list with columns for "Task Name", "Start", "Finish", "Assigned To", "Duration", "Predecessors", "Stage", and "Status".

	Task Name	Start	Finish	Assigned To	Duration	Predecessors	Stage	Status
109	Test Drive Model B	01/26/18	01/26/18		1d			Complete
110	Test Drive Model C	01/26/18	01/26/18		1d			Complete
111	Finalize 2018 wheel design	11/09/17	11/09/17	Full Team	1d			Complete
112	Cut 2018 wheels							In progress
113	2018 Final Wheel Design							
114	Layer 1							
115	Layer 2							
116	Layer 3							
117	Layer 4							
118	Layer 5							
119	Layer 6							
120	Layer 7							
121	Cut out 2018 Final Design Wheel 1 and glue							In progress
122	Cut out 2018 Final Design Wheel 2 and glue							In progress
123	Cut out 2018 Final Design Wheel 3 and Glue			Kavita/Ryan				In progress
124	Cut out 2018 Final Design Wheel 4 and Glue			Kavita/Ryan				In progress
125	Cut out 2018 Final Design Wheel 5 and glue							In progress
126	Cut out 2018 Final Design Wheel 6 and glue							In progress
127	Coat 2018 wheels			Cribbs				
128	STEM Engagement	09/15/17	03/08/18	Grant, Grace, Kavita, Ma	175d			
129	Clarify terms for Engagement/service	09/15/17	10/04/17	Marv, Kavita, Makins	20d			Complete

DATE: 2/10 - Saturday work time

Team/Group members involved:

Wheel team and Cribbs

What I did (bulleted work summary):

- Cut out some of the plywood outer layers for layer 5

What I learned:

Now that we have both the plywood and the cardboard for layers 3 and 5, we have started to glue together full wheels. Today we were able to glue together 2 whole wheels. Now that we have learned how to do this properly, we will be able to cut out and glue whole wheels together easily. We are definitely on track to reach our goal of finishing all the wheels at the end of trimester 2.

Grace and I gluing together layer 1,2,3, and 4.

