Rover Journals

Kavita Sharma
Journal 02 (12/4, 12/6, 12/8)
Due Date: 12/12

Journal Week 02

DATE: 12/4 - Class

Team/Group members involved:

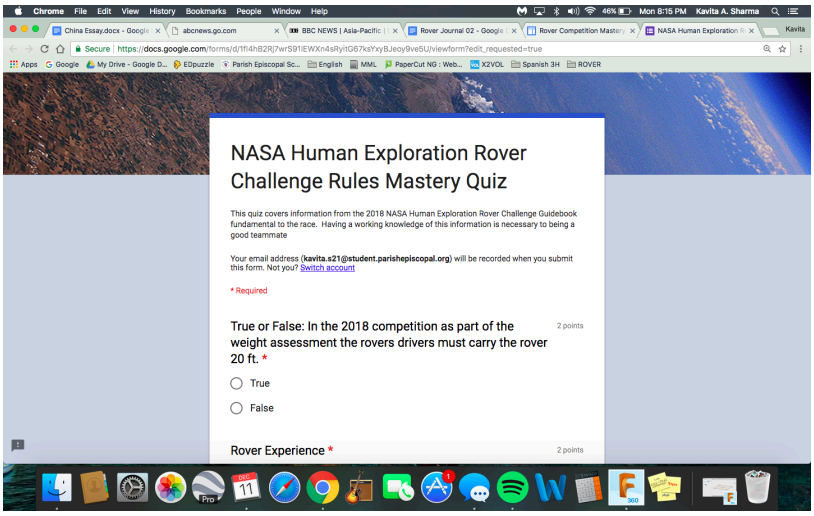
Ryan

What I did (bulleted work summary):

- Took my rules mastery quiz
- Got a demo on how to use the laser cutter

What I learned:

I took my mastery quiz today and this is important because we all need to know everything about the competition so we are ready for anything. I also got a demo on how to use the laser cutter. I have cut things out on the laser cutter before, but I always had help from a teacher when doing so. I finally learned how to use the program on the computer and how to transfer it to the laser cutter. Ryan and I have not started cutting out the wheels yet, but to do so I need to know how to work the laser cutter. The demo really helped me understand the different controls on the laser cutter. Mr. Cribbs also mentioned some safety aspects that help when there are fires. Ryan told me that cardboard can easily catch on fire while it is being cut, so now I know how to be ready for that when it happens.



DATE: 12/4 - After school 4-6

Team/Group members involved:

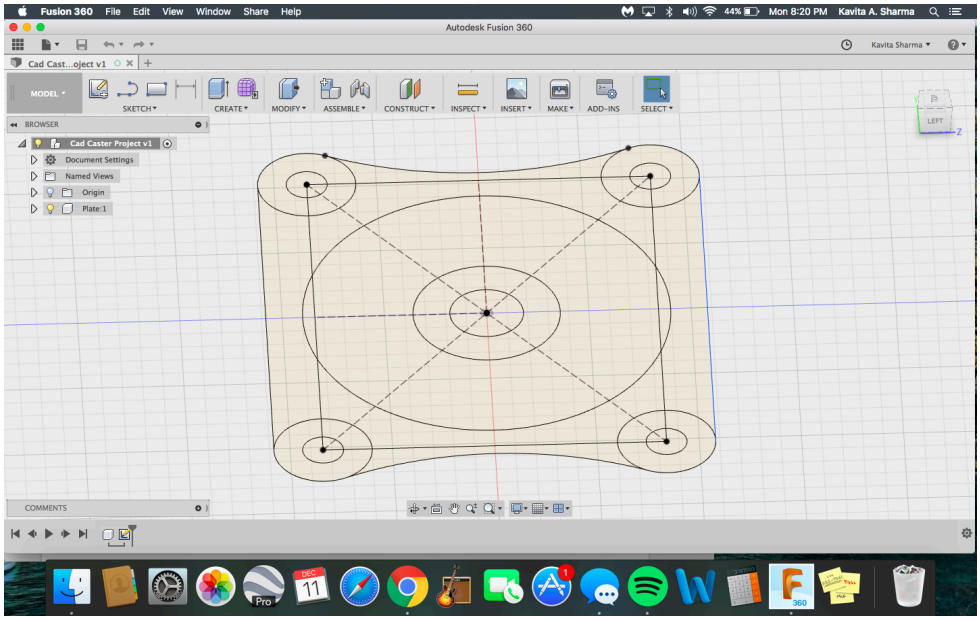
Worked alone

What I did (bulleted work summary):

- Took my laser cutter hands on quiz
- Started my CAD project

What I learned:

I finally took my laser cutter hands on quiz, and now I feel very confident while using the laser cutter. I had Mr. Cribbs' help but I now know what I am doing. This is important because Ryan and I have different free periods, so we won't always be there at the same time to cut out the layers of the wheels. If we only went in together then it would take a very long time to get them done, so if we go in at different times then we would be able to get the wheels done faster which would impact the rover team since we would be able to finalize the rover faster. Knowing how to use fusion is very important because in the future if someone needed me to design something I could easily do it for them.



DATE: 12/6 - Class

Team/Group members involved:

Ryan

What I did (bulleted work summary):

- Made a schedule for the first wheel
- Added to the smartsheet our schedule for the first wheel
- Fixed some bugs on the wheel design
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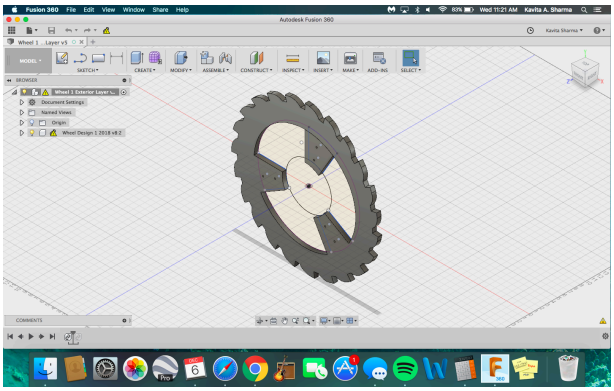
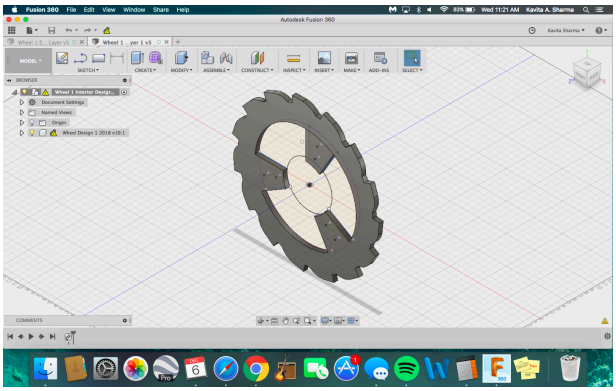
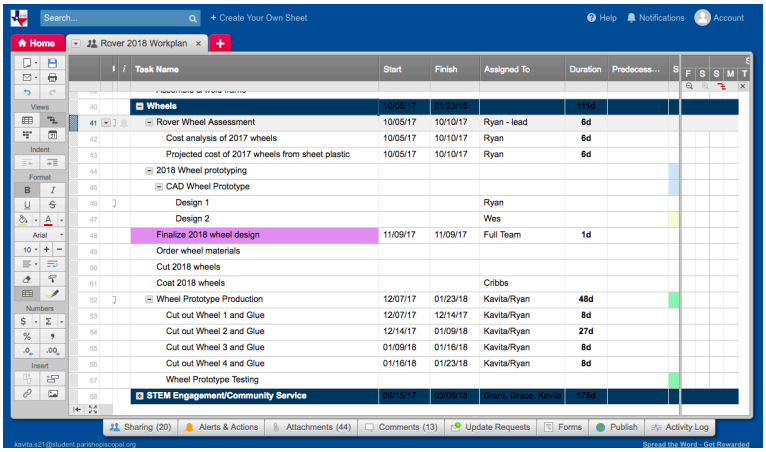
What I learned:

Ryan and I made a schedule for the first wheel. It looked perfect at the time until we realized that CAD CAM would be using the laser cutter during A1 which really set us back. Our goal was to get all the layers for the first wheel done before the break, but that is definitely not going to happen now. We also didn't have time in class to cut anything out because we were doing hands on quizzes which also really set us back a few days. Since the laser cutter was taken Ryan was able to fix some bugs on the wheel design which was important to do before we started cutting. I'm happy that we had that time to do that because it would've been a real problem later on.







Task Name	Start	Finish	Assigned To	Duration
Wheels	10/05/17	01/23/18		111d
Rover Wheel Assessment	10/05/17	10/10/17	Ryan - lead	6d
Cost analysis of 2017 wheels	10/05/17	10/10/17	Ryan	6d
Projected cost of 2017 wheels from sheet plastic	10/05/17	10/10/17	Ryan	6d
2018 Wheel prototyping				
CAD Wheel Prototype				
Design 1			Ryan	
Design 2			Wes	
Finalize 2018 wheel design	11/09/17	11/09/17	Full Team	1d
Order wheel materials				
Cut 2018 wheels				
Coat 2018 wheels			Cribbs	
Wheel Prototype Production	12/07/17	01/23/18	Kavita/Ryan	48d
Cut out Wheel 1 and Glue	12/07/17	12/14/17	Kavita/Ryan	8d
Cut out Wheel 2 and Glue	12/14/17	01/09/18	Kavita/Ryan	27d
Cut out Wheel 3 and Glue	01/09/18	01/16/18	Kavita/Ryan	8d
Cut out Wheel 4 and Glue	01/16/18	01/23/18	Kavita/Ryan	8d
Wheel Prototype Testing				
STEM Engagement/Community Service	09/19/17	10/09/18	Grant, Grace, Kavita	175d

DATE: 12/8 - Class

Team/Group members involved:

Worked alone

What I did (bulleted work summary):

- Got a demo on the plasma cutter
- Got a demo on the welders
- Got a demo on the metal chop saw
- Got a demo on the angle grinder

What I learned:

Before today I did not know what a plasma cutter or an angle grinder was. Demos are great because they give me the chance to understand the different controls on the tools and how they work. Later on in the year if anyone needs help on the frame or anything else I will be able to help them out instead of just being confined to the wheels. It is important for everyone to know how to use every tool because then we can help others if they are stuck instead of just standing there helpless.