Trevor Callow
FSE100

1. When working in a team, what role do you feel you naturally take on? Share a few examples showing your chosen role.
    - I tend to lean towards being a facilitator and time keeper. When facilitating I designate the work and help get my part done for all of thi to run smoothly. An example is during our marble run project I designated a task for each member to have. When on timekeeper I make sure we hit deadlines and help to provide an estimate of what we can get done in the allowed time. An example is with our final report. We had a decent chunk left and I made sure everyone remembered the report and got their section completed and submitted.
2. When joining a brand new team, what best practices do you like to do to ensure your team is successful? Share an example where this exercise helped your team.
    - I like to ensure communication is created so everyone can move thoughts and feelings around amongst each other. I like to create deadlines so we know when we should have something done and ready to present. I also like to establish roles so we only know what we need to do and what our skill sets are for us to be able to collaborate better.
3. If you are given a choice between multiple design options to be a potential solution to a problem, what steps would you follow to make an informed decision about the best option?
    - I would start by looking at all the designs and comparing them to the requirements using an AHP table to see what is most important. Next I would take the designs and compare them using the available testing criteria. Then I would be able to find my best design to continue to use in the future.
4. Tell me about a time when you had difficulties working in your team. How did you handle the situation, and how did you overcome the obstacles?
    - A difficult time I had when working in a team was time management. All of us were behind schedule in our roles and none of us were on task. We came up with a plan and a time schedule and we ended up back on track. Another time I had a problem within a group is we had a member that wasn't doing his part. We fixed this issue by bringing it up to the teammate and stating that we need this done or he will be removed from the project.
5. What is your greatest strength as a team member, engineer, or future employee? Can you tell me a situation where this strength can be seen?
    - My biggest strength is my stress management and also my work ethic. I go above and beyond in everything I do or atleast try my best too. My stress management has been seen through my school and my jobs. Whenever I start to feel stressed I just divide and conquer whatever I need to take care of.

6. What "Systems Engineering" skills do you feel you have gained after this semester at ASU? Which of these skills do you feel will help you the most in obtaining an engineering career?

- I feel I have gained some new skills. I now know how an arduino works and what components work within it. I also learned how to use tinkercad to be able to use this to model future designs. I also learned matlab and c++ coding. Matlab will help me obtain my engineering degree because it is required for my major and c++ will help me expand my knowledge of how things work.

7. Explain several pitfalls you encountered during the build process where you had to change your project from the proposal?

- During the course of our project there were many pitfalls. The first pitfall was sizing. We originally had the car set way too small and it would never have been able to carry the subjects needed for testing. This made us expand the car and make it bigger so it could hold the things it needed to hold. Another pitfall was our axles. They were not giving us the strength needed to hold the wait so we switched them up to metal ones. The last pitfall we had was our gear ratio. We needed a better gear ratio so we switched it to the best gear ratio to allow for the best power to be grabbed.

8. Based on your experience designing a product with a variety of engineering disciplines intertwined to work together, how serious are you about becoming a "Systems Engineer"? Did this experience help you become more excited about your major in engineering, or more excited about getting involved in a variety of design projects?

- This experience has not made me want to be a systems engineer. However i really did enjoy creating this project.I it was a great experience and i cannot wait for any future projects. This has solidified my future career path in engineering and I am more eager than I have ever been before to create something.

9. Out of all the labs and the project, which activity do you feel you learned the most that will help you with your student success at ASU? Why?

- The activity that I feel helped me most for my ASU career was Matlab coding. This allowed me to get a better understanding of how it works and its uses. This also allowed for me to start my next semester class to allow for my future academic success.

10. After going through the project this semester, how would your team norms have changed if you had to write them again?

- My team norms I believe would not change. We had perfectly set up norms and it allowed for all of us to do our best work and collaborate perfectly. However, if i had a different group my norms would switch a bit to allow for a more diverse team to be able to allow for all of us to work together.

Extra Credit (3 points): Overall, explain your experience with FSE 100 in your first semester; for example, was it positive, negative, helpful in deciding your major, frustrating, too easy, too hard? What do you feel could be improved?

- Overall my experience with this class in my first semester was very positive. I believe this class has allowed me to get an insight into what is to come in my future. I found this class very helpful in selecting my major and this has helped me solidify my spot in mechanical engineering. Overall this class was a little frustrating at times and had a massive workload but, it was a good experience with an amazing teacher. If i was to make a change i would make it worth more credit for the workload because i spent more time on this class then my math and chemistry combined.