

STARTING ON THE DESIGN STAGE OF THE PROJECT

This past week, most of the work done was on creating the computerized designs for the final product. Additionally, the second mentor visit was assessed in a mentor visit assessment and some research was done on the side. Overall, this past week was one of the most productive weeks I have had in a long time, which shows progress in my overall productivity as an ISM student.

The main focus of this week was creating computerized designs of the final product designs. The computer program used was Autodesk Inventor, and it was certainly a struggle to learn. I had some prior experience with Inventor and AutoCAD from Architecture and Construction I, which I took freshman year. It was a process to recover my Autodesk account and to get approved as a student in order to use the programs for free. Critical thinking/problem solving was key here, because the process of finding my old account and figuring out how to get approved as a student was relatively difficult. After the programs were downloaded, it was time to begin learning Inventor. YouTube and assistance from a friend proved to be the most helpful resources. Inventor is a complex program and it took many hours to learn. Lots of synthesizing and analysis of information was necessary to understand and learn the material. However, after many long and hard hours, a grasp of the program and how to use it was achieved. I was really proud of myself for putting in the work to learn this program, and I feel like it will be really useful for the designing of the product.

Right now, I started working on designing one of the joints for the mechanical arm. The main issue I ran into so far is figuring out how to make it rotate only up and down, which is still being figured out. Designing this joint took a lot of time to do, but it looks really good so far. The main focuses right now are going to be putting a wrap around it and figuring out the rotation issue.

Overall, I am proud of the progress I made this week with my designs and learning the computer program. I set myself up nicely to get lots of work done this upcoming week and I am really excited to see what I accomplish.

Weekly Report

3/15/21 - 3/21/21