Role Report

Over the course of this project, each member of the team was assigned roles and had specific portions of the project. Although, we did help each other in some areas, my role was different from theirs. My role in this project was to be responsible for the hardware aspect of the design. The roles of hardware engineers include testing the completed prototype of a design, analyzing test results, and ensure that the computer hardware components are all running and working. With being the hardware engineer in this project, I had to work well with the software engineer (Harsh Patel) because these two aspects worked hand in hand.

Our design (Handibrella), had many parts in which it took trial and error and I am glad we were able to complete and make a cool design. This semester long project has taught a lot of things about what it takes to make a design from scratch.

During the beginning of this project it was kind of hard coming up with what materials that we were going to use for the Handibrella design. We had an idea of what to use but we couldn't quite choose. We as a group decided that we would use a Bluetooth connected remote along with a circuit board. My job as the hardware role was to able to connect the materials together and makes sure that they were all working. For example, we as a group had to figure out which wires were connected into circuit board and then into the motor and battery. Although this didn’t take one try we had to re do it several times to get it right. Even though this was the case, we as a team were able to figure it out because the previous class before this gave us a learning point for doing this in the future.

As of my role, I honestly think I did really well. Being a hardware engineer in this project showed me that engineers don’t usually create projects in one try. Also, it taught me that it takes a lot of critical thinking and research when trying to a create a big engineering project like this one. Although for this major I am leaning towards the software areas, I still learned what being a hardware engineer has to offer.