Project Identity
Shampoo-Conditioner Identification Device/ Medicine Reminder
Week 1: 2/11 – 2/18
Kenta Umetsu

Work Completed

This week, the materials that were ordered for the medication reminder PDA casing last week came in. They were inspected for quality and double checked that they were what we wanted. The black ABS came in slightly scratched on the surface which was slightly disappointing. The packaging is poor and no cushioning was in the box. The scratches don’t seem to be a huge issue as Sheldon said they can be refined in the machine shop. The other material which was the clear polycarbonate came with a protective layer on the outside. The clearness was inspected and the polycarbonate sheet was exactly what we expected. Very good impact resistance was observed on both materials.

To follow up on the future work of the previous week, plans for the PDA medication box was started. The email from our client contact was read thoroughly and further questions were sent back for more details. Currently we have several different designs that we have come up with depending on the need of our client which we will know from the reply email. The first design is a simple box where it opens from the top. Two options for this type are to either place movable dividers inside the box or create removable compartments. The simple box design is better if the client wants to carry the box around although with her rather large bottles the box will be semi bulky.

The second design implements a similar design to the product shown below. The intention would be not to hang but have it against the wall. The overall shape concept for our box was inspired from the picture.
A tall compartment will allow for the larger bottles to fit while not having the box to large in length. This will save a little more space but will be harder to carry around compared to a simple cube. The inside design currently is to have removable shelves on the inside so that she can adjust the shelves as needed as her medication may change over time. All of our designs have been sent to our client contact to get feedback on our ideas and to hear from an outside view.

Last week, I had finished the visio drawings of the PDA casing. This week I have taken the final design of the PDA casing (side view) and drew it to scale in visio with all the measurements. This will help us when making the actual cuts to the material. When we get closer to the actual time to cut the material, all views of the visio design will be redrawn to scale to bring to the machine shop.

**Future Work**

Currently I am waiting on the shampoo and conditioner identification device to be finished so that Sheldon and I can start planning for the casing of the device. The devise casing for the shampoo project will be a little more complex then the PDA casing so more planning between my teammates will be needed before ordering any materials or coming up with the design. Research on gaskets and waterproofing are still being looked
at so that we do not come across problems when we build the casing. Brainstorming on some parts of the casing has been discussed with my teammates. Overall I am still looking to refine everything that I have worked on and to still look for improvements that can be made to both devices. Option ideas are still being discussed with teammates constantly when we brainstorm together.

**Project Review**

Overall both projects are coming along fine. Several minor delays have been seen but nothing that we can overcome. My part of the project for planning is coming along very well but actually building my plans cannot be done until

**Hours Worked:** 15