Work Completed:
This week the remainder of the easel was constructed out of cardboard and foam pieces. This helped me plan out the sizes and dimensions of the actuators and also to make sure that once they arrived that they would fit into the metal pieces that were chosen. The website is an integral part of the design process. This week I also took time to learn the workings of putting items onto the website as it was unable to work in the past weeks. My part of the design process is the amenities of the easel. This includes the design features that more complicated fabrication doesn’t include. This week was spent designing multiple designs for the pencil/paintbrush holder. This includes the dimensions of the new parts as well as the material that I wish to make them out of. I have to be sure that the designs will work well with the specifications of the project. This means keeping in mind the constraints of the client. Designs for the easel’s extra features can be seen in the lab notebook. Below are examples of the possible metal stock that I can choose from to create these designs.
Future Work:

The next week the goals that are to be accomplished are to pick the material that
will best suit the easel. Since the majority of the easel is to be constructed out of
aluminum it is more than likely that will be the material that I will choose. I will have to
pick the prime positions for the new designs according to the easel already determined
structure. Parts that make the easel aesthetically pleasing will help it to look more user
friendly instead of just an easel. The goal is to have the client want to paint on the easel
and it will be fun for him as well. Considering the client’s needs will be a main focus for
next week and field testing will be done to make sure that all designs are appropriate for
him. Stock from Independent Welding will have to be chosen next week as well in order
to begin fabrication of the designs.

Project Review:

Thus far, the easel is coming along well. From last week, there are additions to
my work load that will allow for more time to be spent, as well as making the easel a
better finished product. Once the parts are fabricated it will be a better judge of the
improvement in the easel’s look.

Hours Worked:

The hours worked this week were 10. Most time was spent drawing up plans for
the new features.