

### Mounting hardware:

This part of the CAD model was focused on making a box that could accommodate the motherboard (in our case the Arduino). The initial measurements of the Arduino were taken and 0.3 inches was added to each dimension to ensure that the motherboard fit in the box completely. For the CAD model, we used SolidWorks with the measurements set at cm, gram, and seconds to match the other components of the arm. For the initial sketch, a box was made and extruded out to form the initial box that would hold the motherboard. Afterwards, the box was shelled to about 0.25 inches and hole wizard was used to make screw holes on all four corners of the box. Once the box was done a lid was made in the same method and mated together to assemble the complete hardware. Once all of that was done, additional holes and slits were added to the sides of the box for the wiring to come out from.