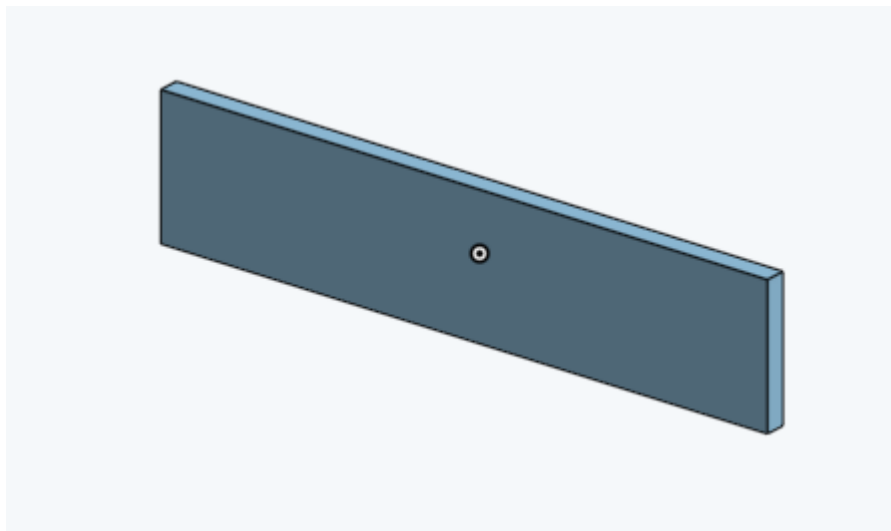
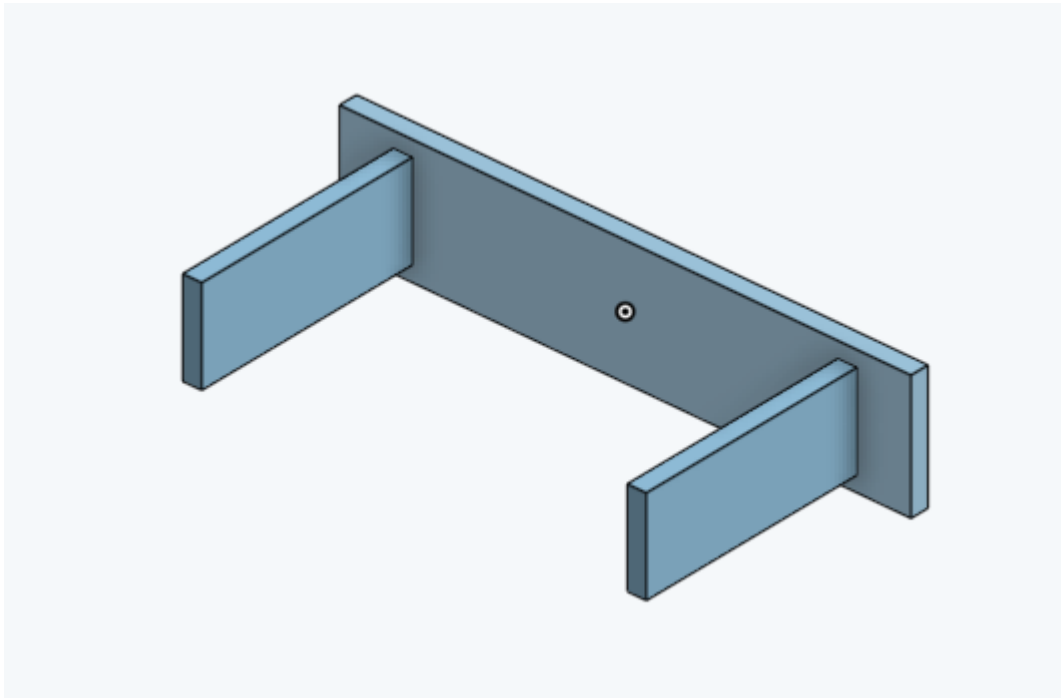




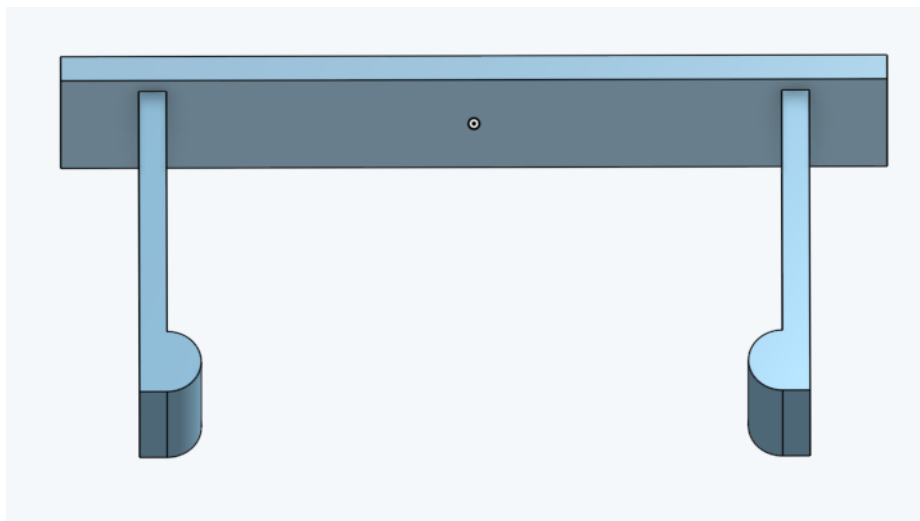
Measure all the dimensions you will need to take into account for your design. Write down the measurements in a notebook with easy-to-remember names.



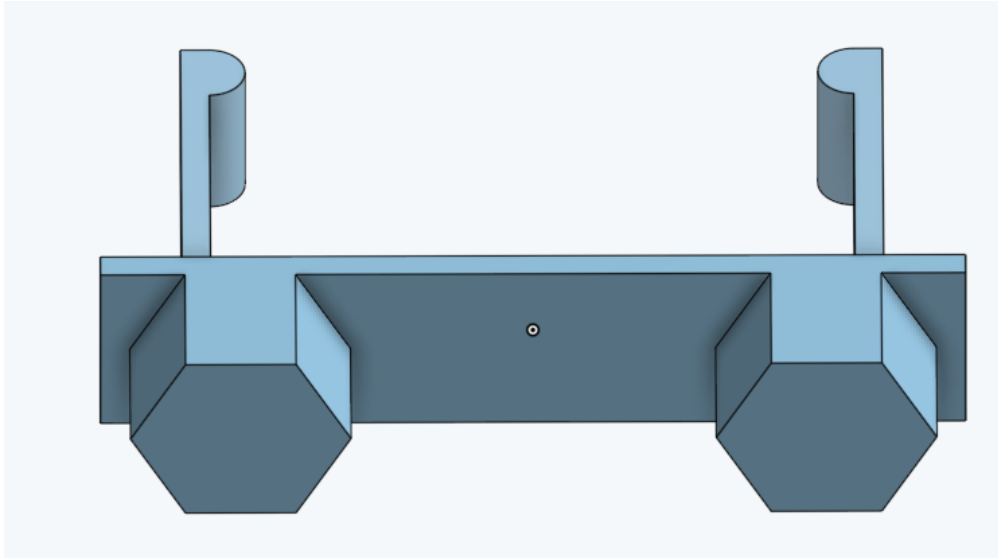
Create a backplate by sketching a rectangle. To make it easier to line up the other features later on, center the rectangle on the origin and sketch two construction lines, horizontal and vertical, through the origin. Make sure the rectangle is big enough to fit the hex plugs and the tangs. Extrude it 2 or 3 mm.



Create the tangs by extruding two rectangles horizontally (hint, you can sketch the tang rectangles on the same sketch at the backplate.) Make sure you extrude them long enough to fit the pliers plus the stops.



Create the stops. Make a sketch plane that lines up with the top surface of the tangs. Sketch an arc that lines up with the end of one of the tangs. Don't forget to close the arc by drawing a straight line from one end to the other. You can mirror the arc to make another on the other tang. Extrude downwards. (Don't forget to choose "add" in the extrude dialogue, so that the arcs are added to the tangs.)



Create the hex plugs on the backplate the same way you did with the shelf project. Remember to calculate the distance between the plugs based on the distance in the shelf project.