

Weekly reports are to be emailed to atbecker@uh.edu by 5:00pm on Tuesdays. The purpose of a weekly report is to: (1) give you text and images for your papers, thesis, and dissertation, (2) document progress, (3) identify if you are stuck or need resources.

Weekly report

1. My *Goals* from last week

- Make a prototype frame for the net (used ABS and acrylic)
- Revisit corner piece design

2. My *Accomplishments* this week

- a. Project 1: Mosquitos vs. Drones
 - deliverable 1. *Prototype mosquito net*
 - Made the net frame out of 2 layers of ABS (bottom and top) and 1 layer of acrylic (in the middle)
 - The frame seems to have weak points (circled red, below), which makes it hard to stay sturdy
 - Aluminum mesh also may touch in the wind, so there needs to be a spacer in between every few square inches

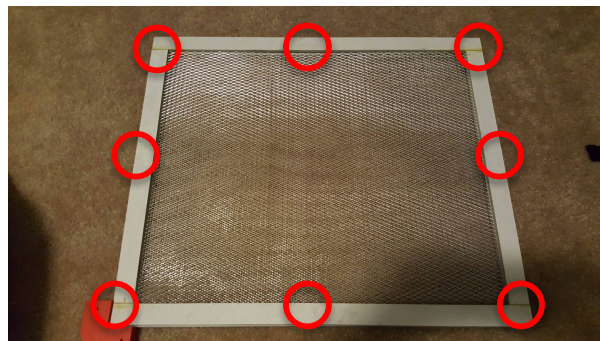


Figure 1 – Full frame with netting

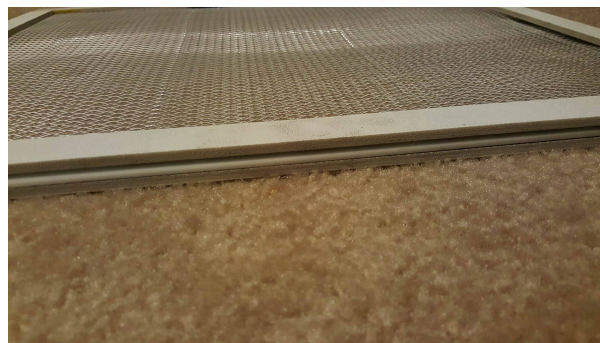


Figure 2 – Side view to show the layers

- deliverable 2. Revisit corner piece design
 - Added minor changes to the piece (screw holes, nut holes and deepened the hole for the fiber glass)
 - Since the frame has weak spots on the corner, the corner piece can be used to hold the frame together, if there were an opening for it
 - Possibly also make the piece bigger, and add another hole for another fiber glass rod

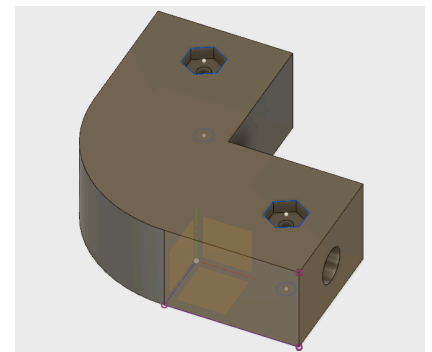


Figure 3 – Revisited Corner Piece

3. My *Goals* for next week

- Make spacer to go in between the 2 aluminum meshes
- Redesign the corner piece to fit 2 rods and the frame
- Have a fully functioning prototype
 - a. Meeting with Dr. Becker on Wednesday, July 5th, 4:30pm

4. What I need Dr. Becker to do:

- a. Meeting sometime next week (Wednesday or Thursday) for recommendation letter