

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

- Explore 3D modeling software to use
- Model the corner pieces for the frame
- Research what the best materials are for making the net sturdy and durable, but also light

2. My *Accomplishments* this week

- Project 1: Mosquitos vs. Drones
 - deliverable 1. *3D Modeling Software*
 - Software tested: Blender, SolidWorks, Fusion 360, AutoCAD, and TinkerCAD
 - Prefer: Fusion 360 (free for students, easy to use and can assemble a full project with multiple pieces in one project file)
 - deliverable 2. *Modeling the Corner Piece*
 - Modelled the corner piece using Fusion 360

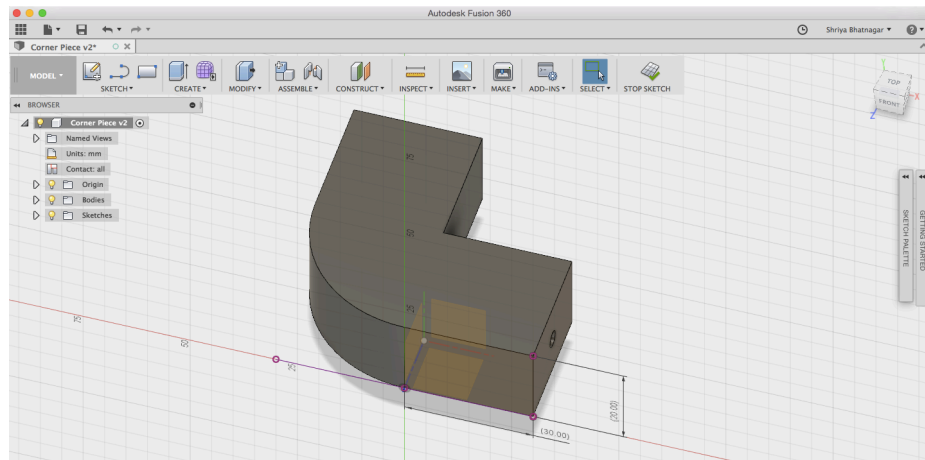


Figure 1 – Corner Piece Model

- deliverable 3. *Material*
 - PLA for the corner piece may not be completely durable, might be a better idea to resin cast the model in a hard rubber type formula
 - ABS can be used for the frame

3. My *Goals* for next week

- Revising the new net design (if needed)
- Order 1/8" ABS sheets for the frame
- Test the 3D corner model
- Make a prototype frame for the net (with wood possibly)
 - Meeting with Dr. Becker on June 28th, 2017 at 10 am (if available)

4. What I need Dr. Becker to do:

- Need the Amaco order – reimbursement form signed
- Recommendation letter for Graduate Application
- Figuring out what's happening with the independent study