

Corsair Gaming Inc Internship

Mechanical Engineering Intern

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Job Description: Mechanical Engineering Intern**Introduction:**

This internship was a 4 month term during my semester in Georgia. This specific office moved from Miami, FL to Duluth, GA and responsibilities mainly included optimizing the manufacturing process of their incoming PCs in collaboration with Origin PCs. This included researching and designing different mechanisms to rapidly print on different materials of computer panels including PCs and Laptops.

Responsibilities:

- Setting up weekly Progress meetings with Managers
- Communicate and understand customer (company) needs
- Researching optimal materials and design features based on task
- Design utilizing CAD (solidworks)
- Creative aspect required for designing practicality of these designs



Figure 1: Type of printer utilized for design

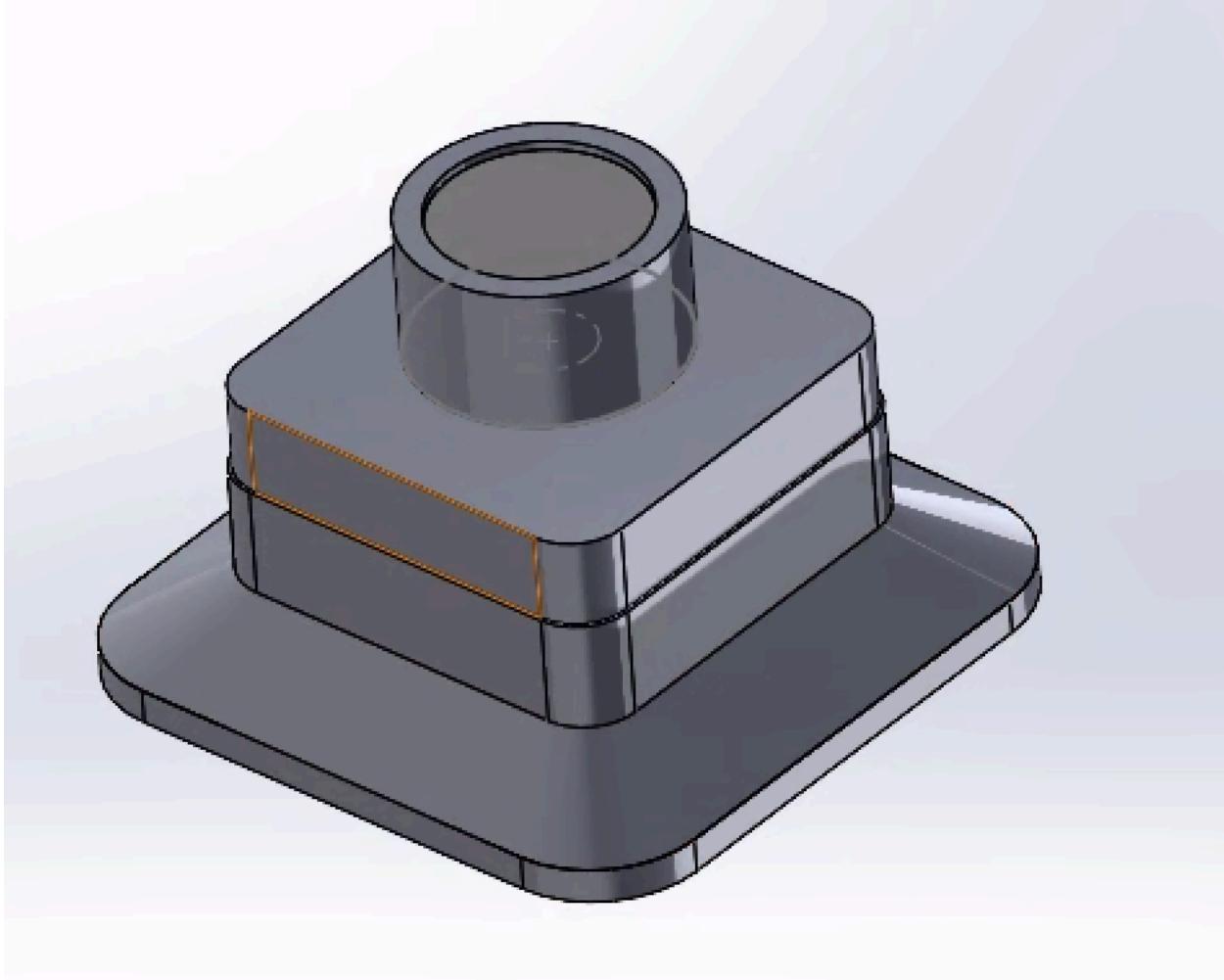


Figure 2: Printer bed

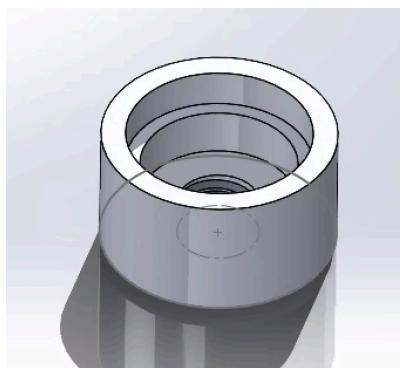
Example of Documentation

Note: Not all work was allowed to be shown. This is an example of documentation I performed when a final iteration was completed

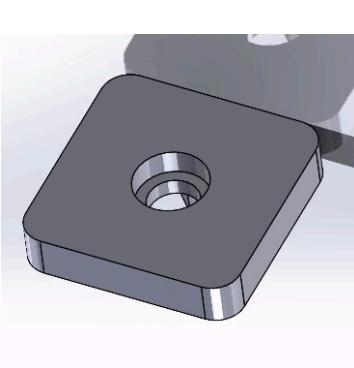
Assembly Instructions:



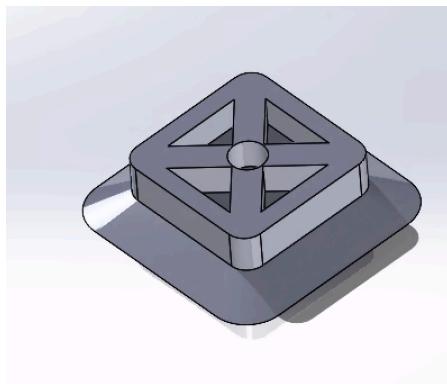
1. There are three components in total: Base mount, Top mount, magnet mount



Magnet Mount

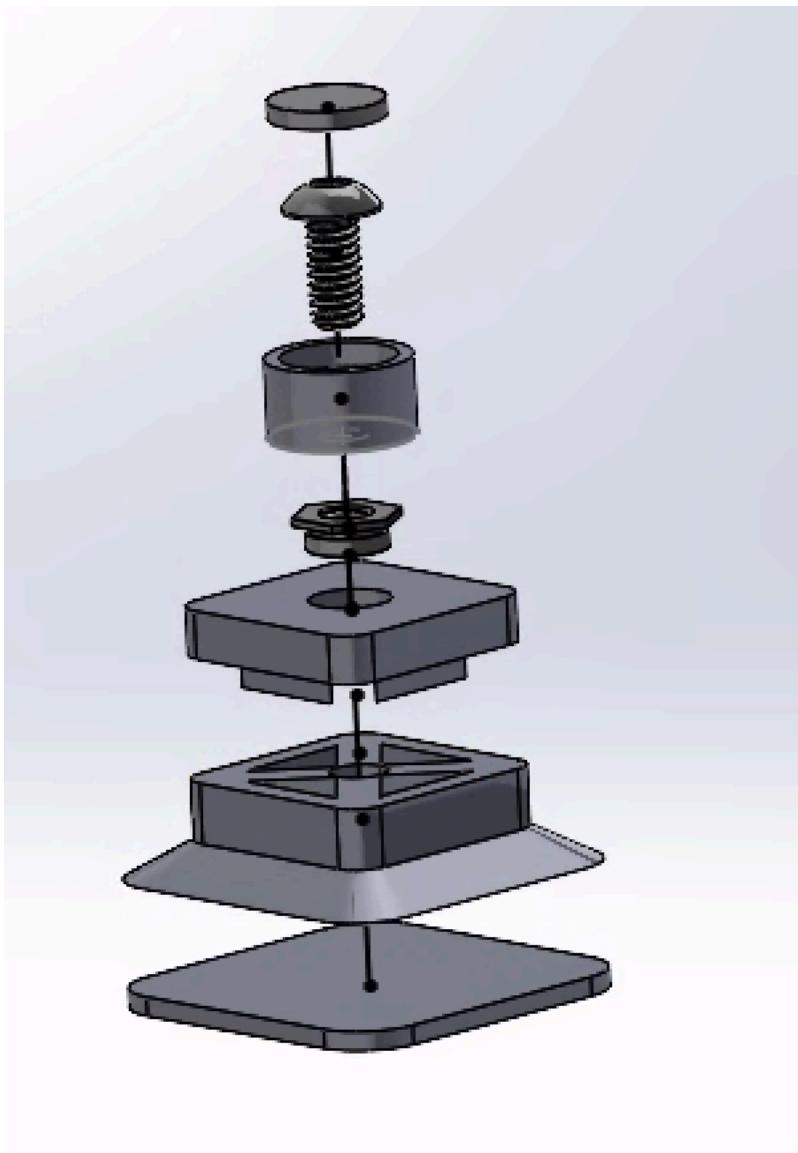


Top Mount



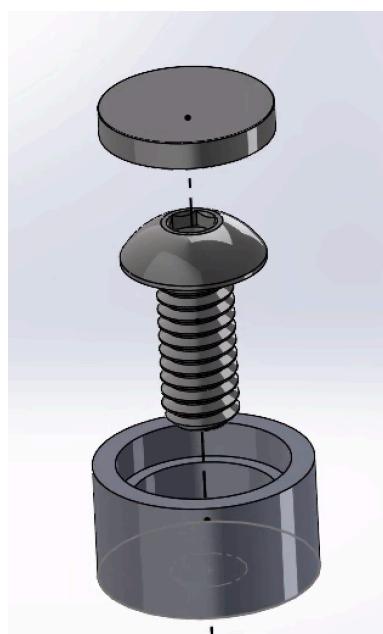
Base Mount

2. Exploded view of assembly:



Magnet Mount:

3. To assemble top magnet mount, take
 - a. 8-32 Screw: 92949A192
 - b. Neodymium magnet: 5862K143
 - c. 3-D printed magnet mount
- First, screw in the 8-32 screw to the threads in the print. Since the screw is not intended to be taken off, it can be forced into threads if it seems as not fitting (Figure 1). It is recommended to use adhesive/glue to secure it even more
- Second, attach the magnet to the magnet mount, it should be press fitted into the mount (Figure 2)



- This should complete the magnet mount build (Figure 3 is cross section)

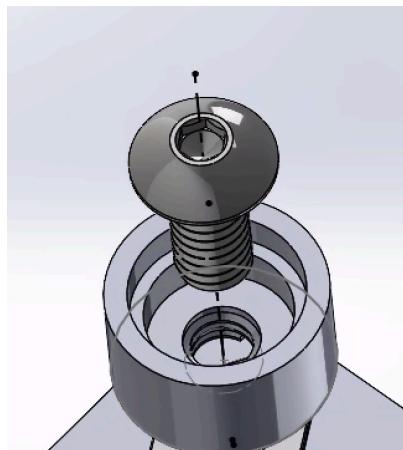


Figure 1

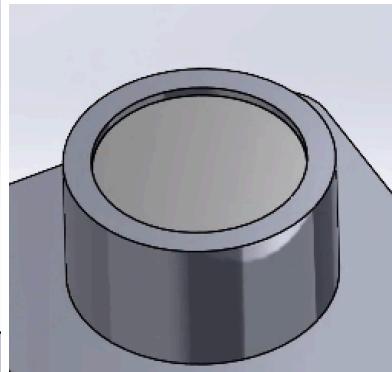


Figure 2

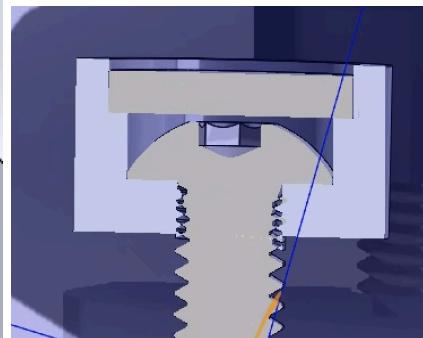


Figure 3

4. To assemble Top Mount, take
 - a. Press fit nut: 94674A511
 - b. 3-D printed Top Mount
- First, take the nut and press fit it into the top opening (Figure 4)
- Assembly should be completed

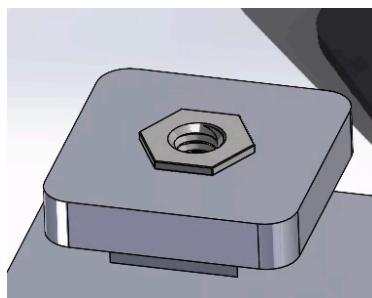
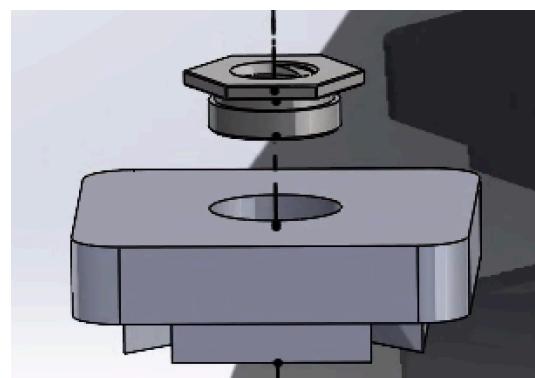
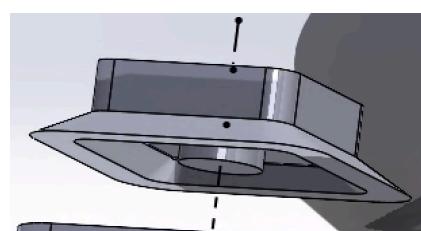


Figure 4



5. Assembly of Bottom Mount
 - a. Foam: 86375K132
 - b. Rubber: 1290N13
 - c. 3-D printed Bottom Mount
- First, take the Foam or Rubber (Rubber recommended initially) and glue it onto the bottom panels
 - Recommended to use fairly strong adhesive so there are no open flaps, or easily fallen off
 - Where to glue is up to discretion but recommended to glue the outer rims and the center circle to the rubber (Figure 5)
- Assembly should be completed (refer to top image)

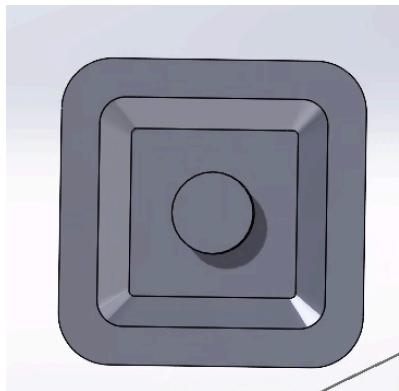


Figure 5