

BOMBS C.C.



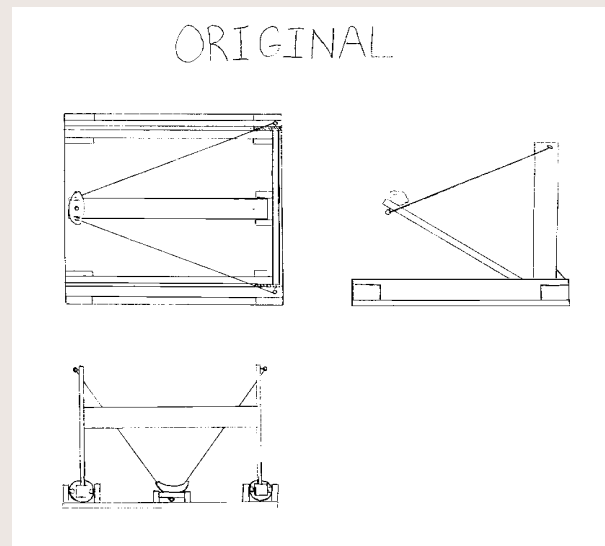
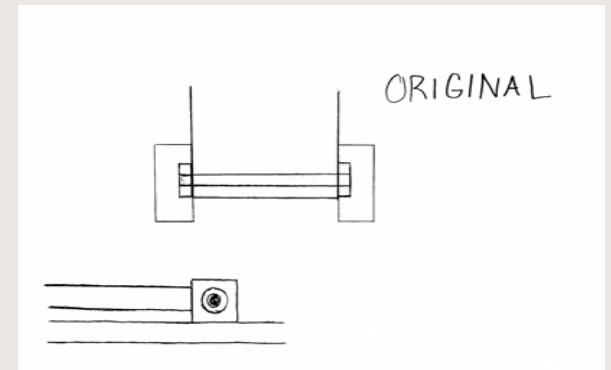
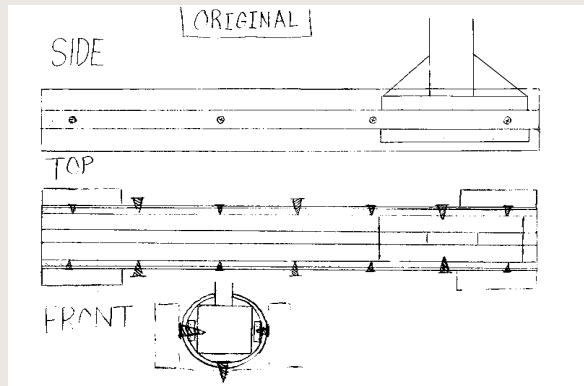
Group Members

- **Brett Gleasman**
 - Group Leader
 - Introduction
 - Problem
 - Conclusion
- **Owen Clark**
 - Design/Drawings
 - Design
 - Adjustment
- **Matt Holsopple**
 - Design/Drawings
 - Base
 - Accuracy
- **Brett Morris**
 - Materials/Final Sketch
 - Radial Arm/Trigger
 - Final Product
- **Steven Kovach**
 - CADD Drawing/Assembly
 - Assembly
 - CADD Drawing

Problem

The Problem was to design a Catapult that would fire a 50 gram object 3 meters and hit a target that is 20 inches off the ground. The Catapult had to fit in a box that was 1.5 feet³. We had to be able to design the Catapult to be able to change on the needs of trajectory and distance to hit the target in the bull's-eye.

Design



Assembly

- November 5th
- Steven Grandfather's Garage
- Tools Used
 - Table Saw
 - Drill/Screw Driver
 - Chop Saw
 - Sander
 - Staple Gun
- 4 Hours of Building Time
- Materials
 - 2x2 8ft \$2.50
 - 1x3 8ft \$2.00
 - 2'x2' plywood Base \$4.00
 - 5ft 2in PVC Pipe \$5.00
 - 8ft Molding \$1.00
 - Screws/Medical
Tubing/Labor/Hinge/
Carpet liner \$Free

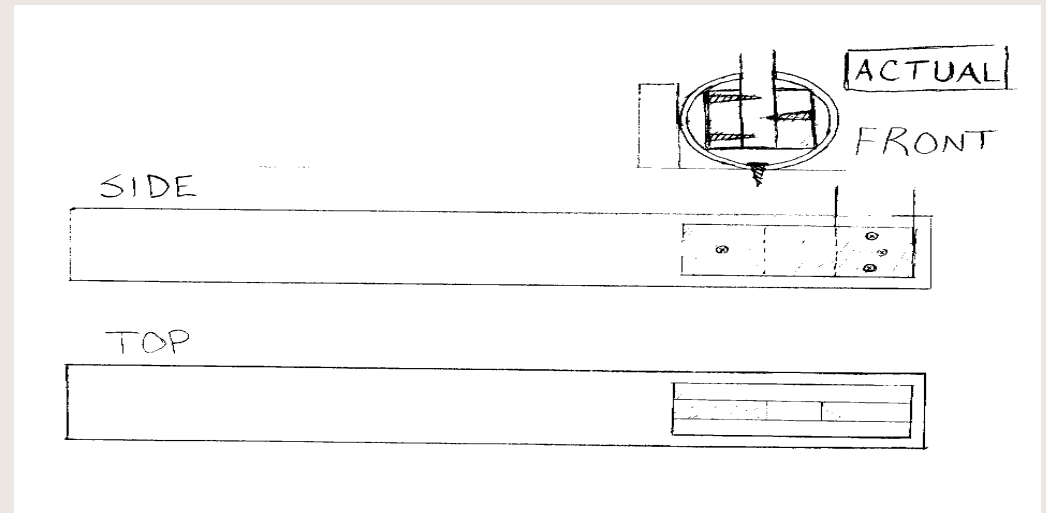
Base

- Materials
 - Rubber matting
 - 1.5ft² Plywood Base
 - 10lb Plate
- Reasons
 - Stability
 - Safety



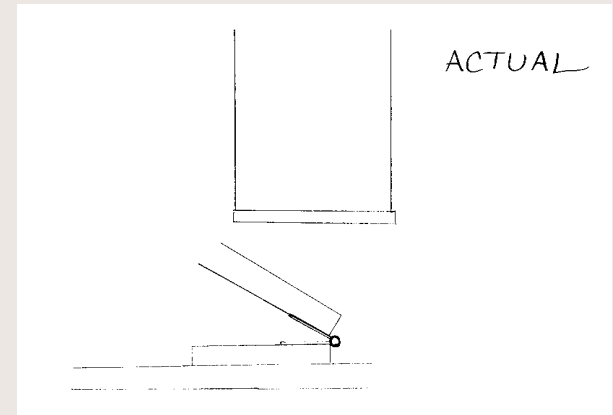
Adjustment

- Materials
 - PVC Pipe
 - 2x2 Wood
 - 1x3 Wood
 - Padding
- Reasons
 - Angle
 - Distance
 - Safety
- Changes

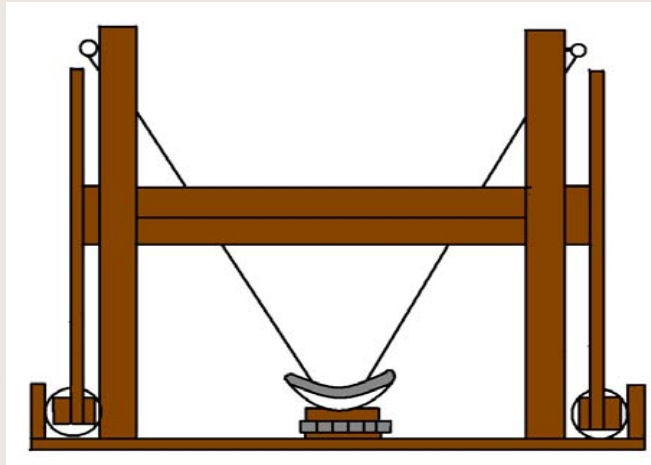


Radial Arm/Trigger

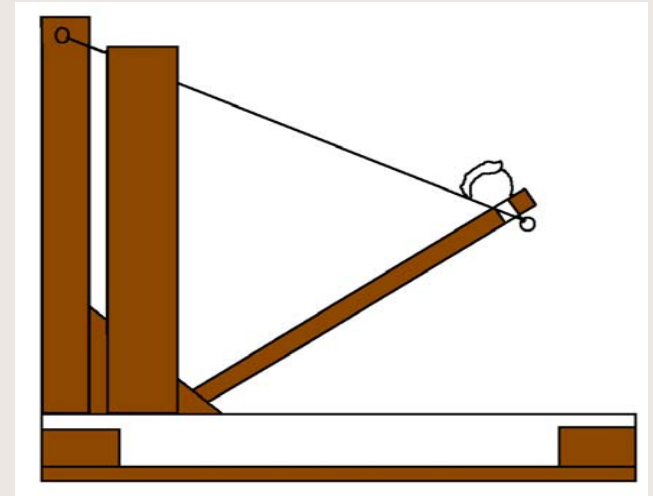
- Materials
 - Chinstrap
 - Hinge
 - 1x3 Wood
 - Eye Screws
 - Nail
 - String
 - Medical Tubing
- Reasons
 - Stability
 - Safety
 - Reliability
- Changes



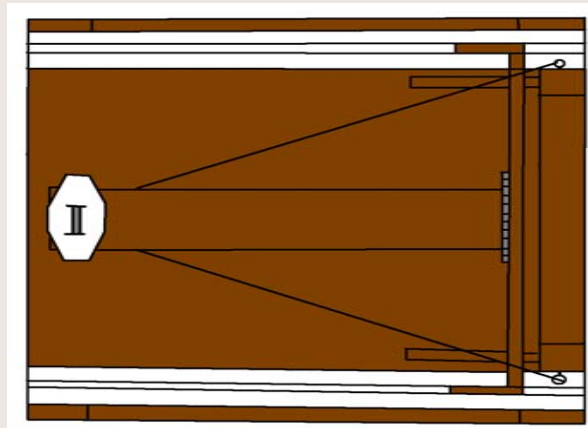
CADD Drawing



Front

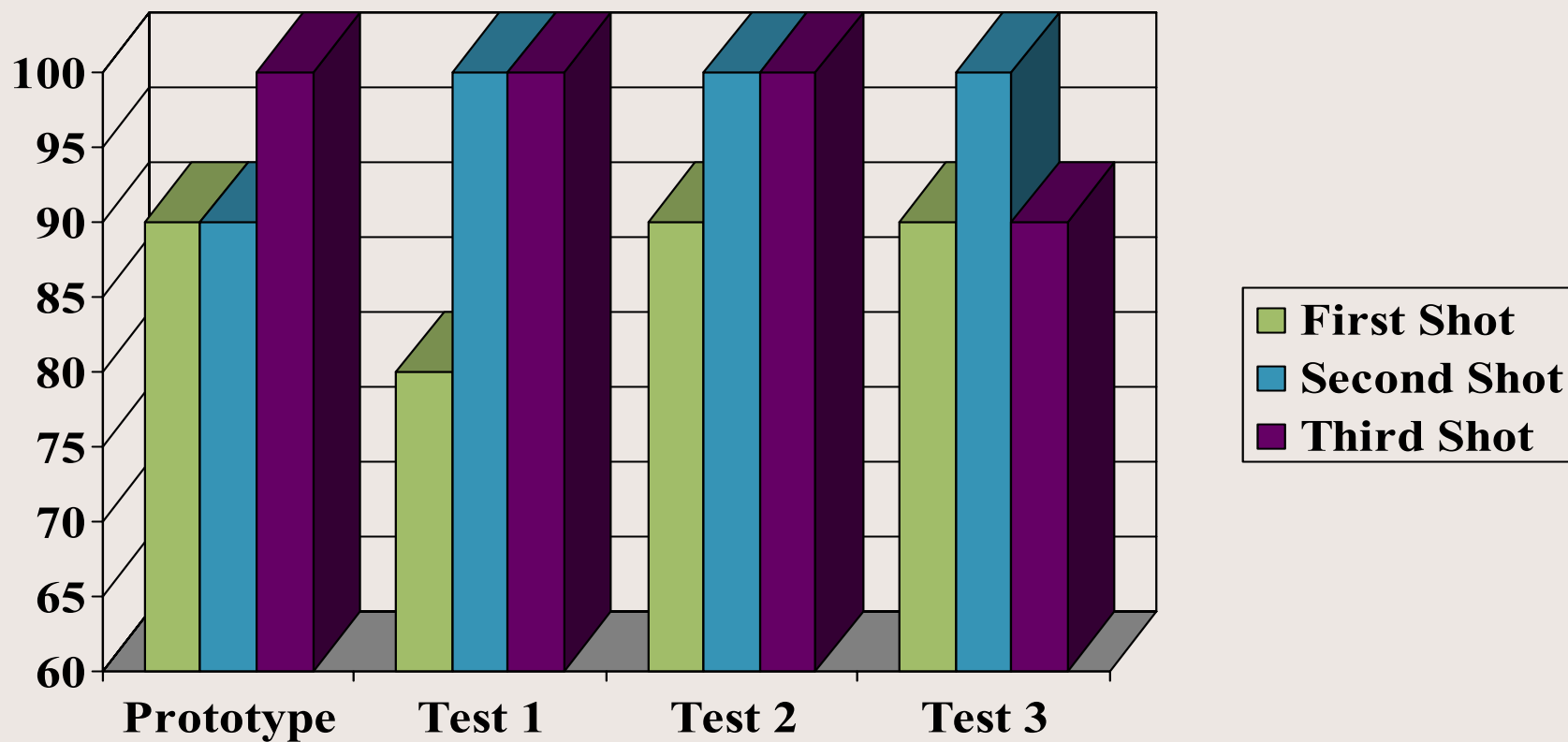


Side

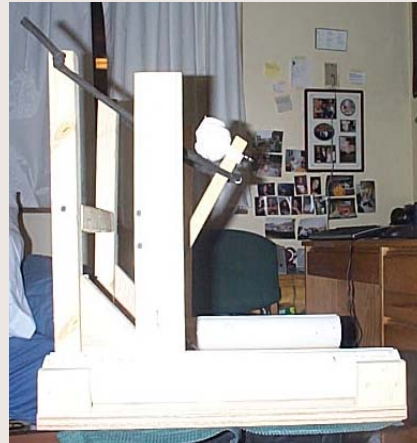
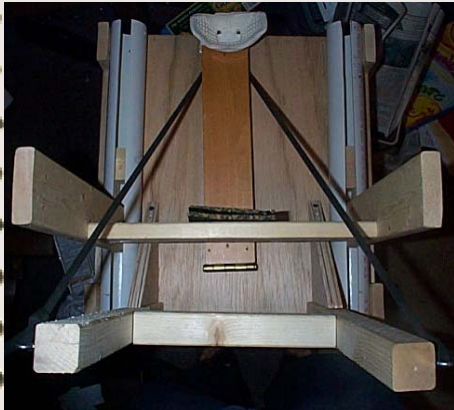


Top

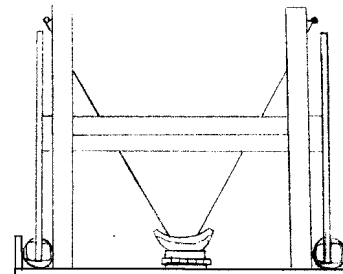
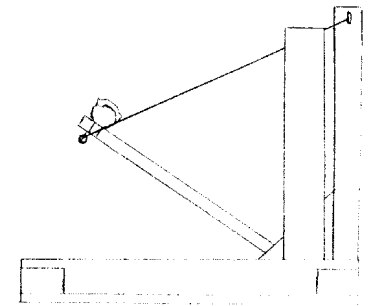
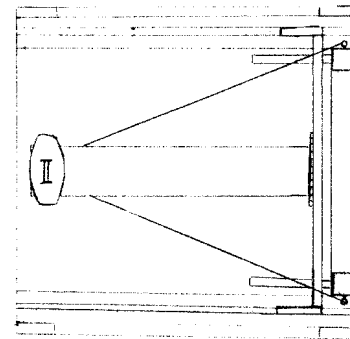
Accuracy

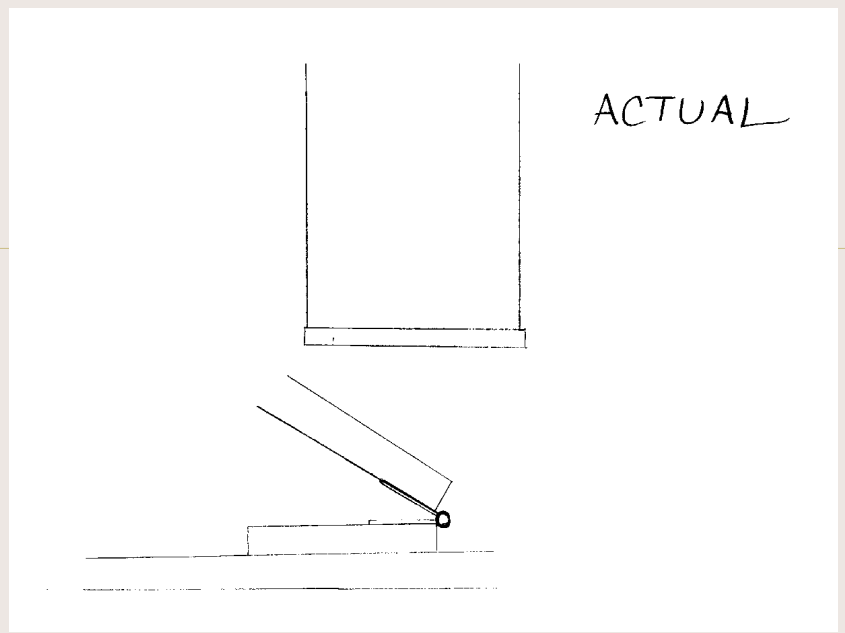
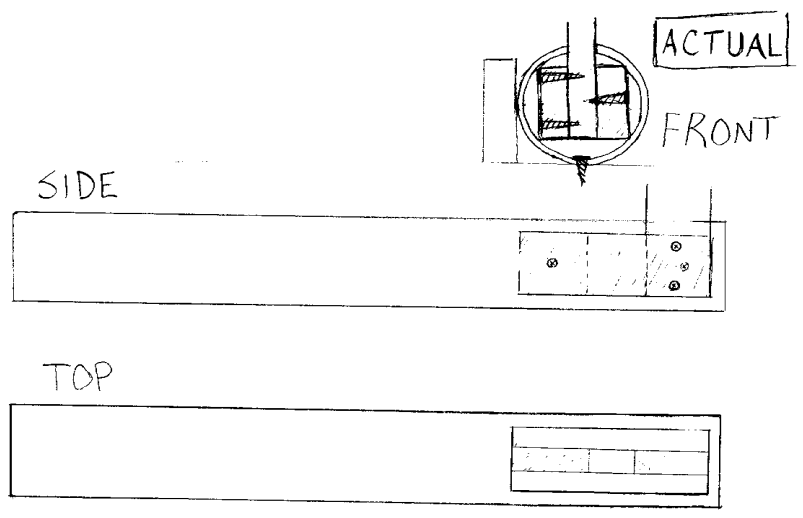


Final Product



ACTUAL





Conclusion

For this problem of hitting the target consistently with accuracy we made the final product by going through the process that was stated.

Questions

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