



# *Kite-balloon*

Vanessa Lecky  
Julian Fialkow



# Intent

- To create a helium fuelled kite balloon that is strong enough to fly in various wind conditions and lift a camera in order to take aerial photos

# Past Designs

- Tear drop shape with kite style wings
- Black Night 1
- Inspired from the Kytoon, 1950's idea- a mix between a kite and balloon



# Kytoon

- 1950's idea-a mix between a kite and balloon
- Advantages-it won't nose dive like a normal kite does
- Won't drift downward like a balloon



# Design & Materials

- Elongated shark like body
- Large fin
- Kite tail
- Transparent plastic trash bag
- Sharpie
- Packing tape
- Kite string and cotton string

# Price List

- Helium tank: \$45
- Trash bags: <http://www.plasticplace.net/productlist/Garbage-Bags----Clear/3?gclid=CJG7g5aDp6ECFSI55QodwFWpEw>
- 2 Cameras: \$240
- Nylon String: \$3.50
- Packing tape: \$3
- Scissors: \$2

# Testing

- Made prototypes
- For the first trial run, the balloon flew well at first then started to dive and folded inward on itself
- The string on the fin was placed too close to the edge and the fin was too far back
- Not stable or sturdy enough to hold the camera
- Needed more surface area and helium
- Lost air







# Runaway Balloon



# Conclusion

- Move fin towards the middle of the balloon
- Tie a strong knot and make sure it is tightly secured
- Use hefty rope

# Bibliography

- <http://cms.grantvillegazette.com/upload/Gazette%2020/DNWktbln.jpg>
- <http://wiki.grassrootsmapping.org/show/HeliumKite>
- <http://blog.modernmechanix.com/2008/01/25/kite-balloonkytoon/>