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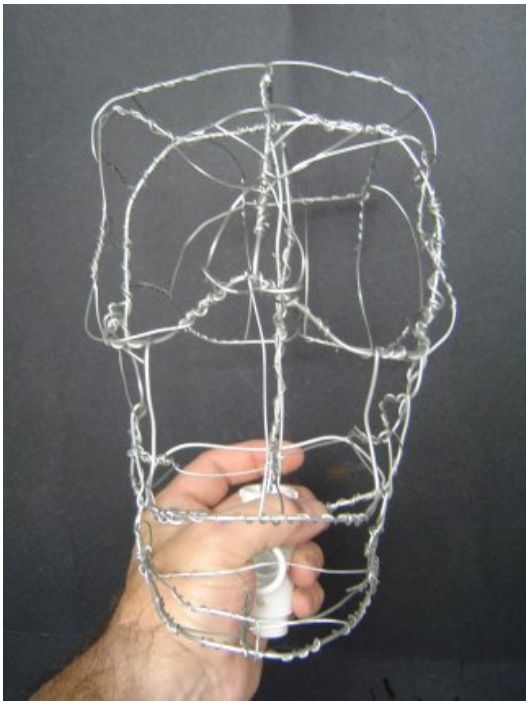
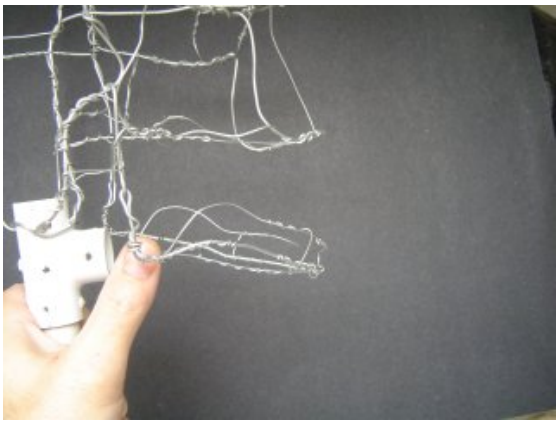
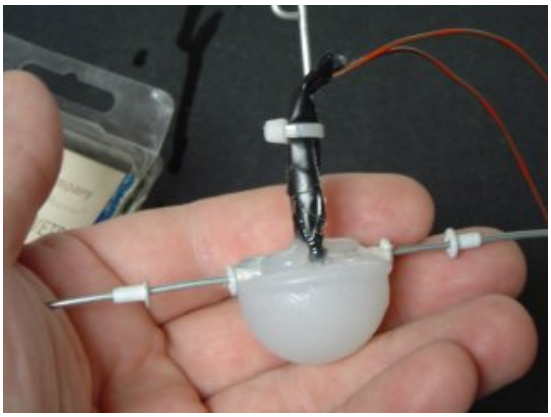
Zombie



Heres the wire frame of my next victim. Another zombie for my grave yard.

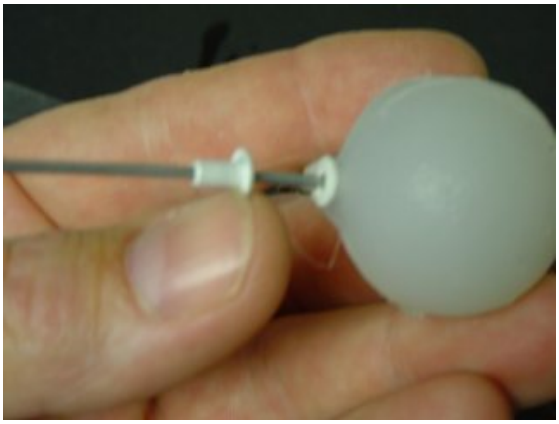
Another zombie for my grave yard.



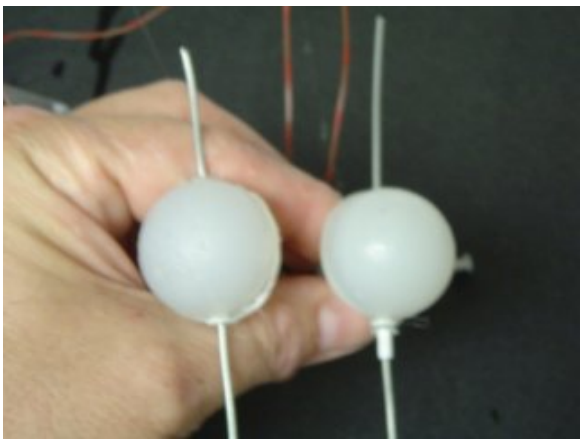


I used a 1/2" PVC tee as the base. The jaw opens & closes and the eyes will also move.

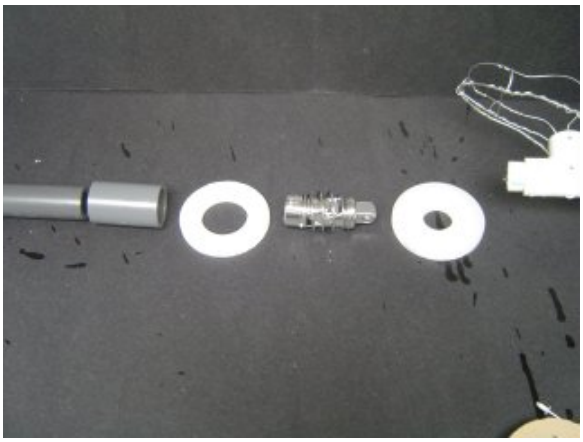
The neck is made up of a U joint with a 1/2" piece of pvc on the top that fits into the bottom of the 1/2" Tee. The bottom of the U joint fits in a 3/4" coupling that will connect to the 3/4" PVC pipe I`m using for a base. I have to make the two 3" round pieces of 1/4" plexi-glass to attach the springs too.

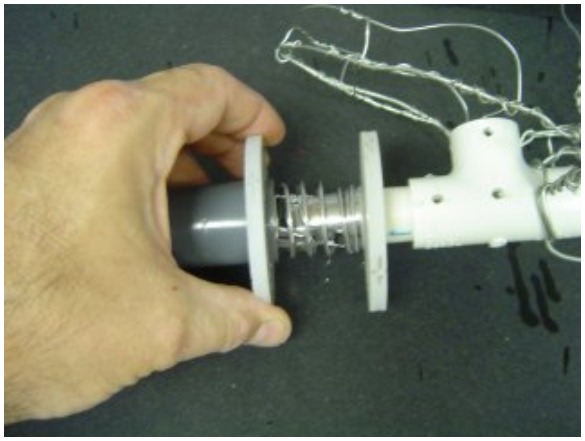


On the left is a close up of the eye. The eye it self is made of hot glue that I put in to a mold. Once it dried I hot glue a piece of wire in the center of it. I also added the rivets to both the top and bottom of the eye so the eye will move a little smoother. I will use two more rivets so the eye will move freely



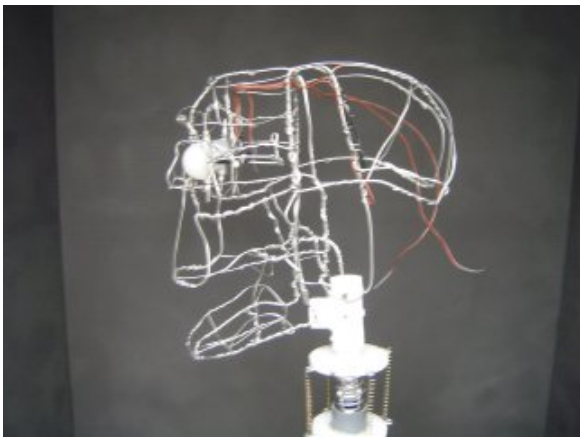
A better look at the eyes.





Heres how I plan on laying out this neck joint. I used a Hole saw to cut out my 3" plexi-glass disk. Then I used the center hole from the first 3" hole saw to use a smaller hole saw to cut out the middle. I did the same for the other disk but I used a different size hole saw for that center. I`m going to epoxy them together later.

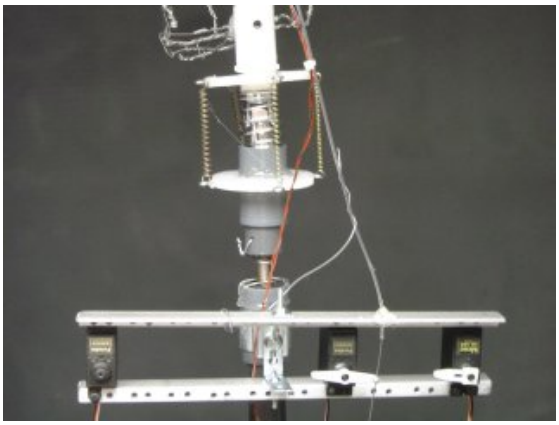
I made extra 3" plexi-glass disk for the next project. When I find something that work I make a bunch of them so when I feel like building the parts are made. Its also easy to do a bunch at a time.



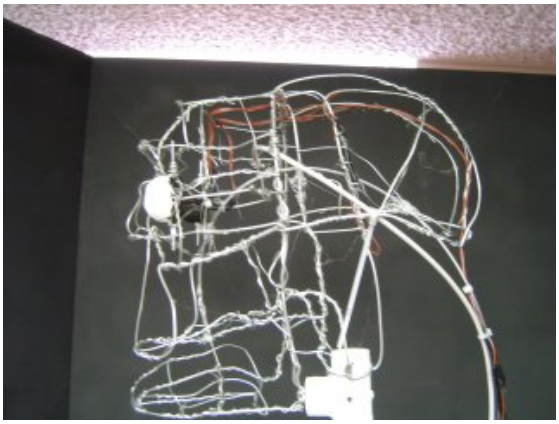
I added eyes to the head & some springs to the neck joint.

On the left is my neck turning movement. It just an old shaft & a bearing I pulled from some old equipment. The top of the shaft is glued into the 3/4" pvc pipe and the bearing is mounted in the coupling with a little epoxy. It spins nice and smooth.

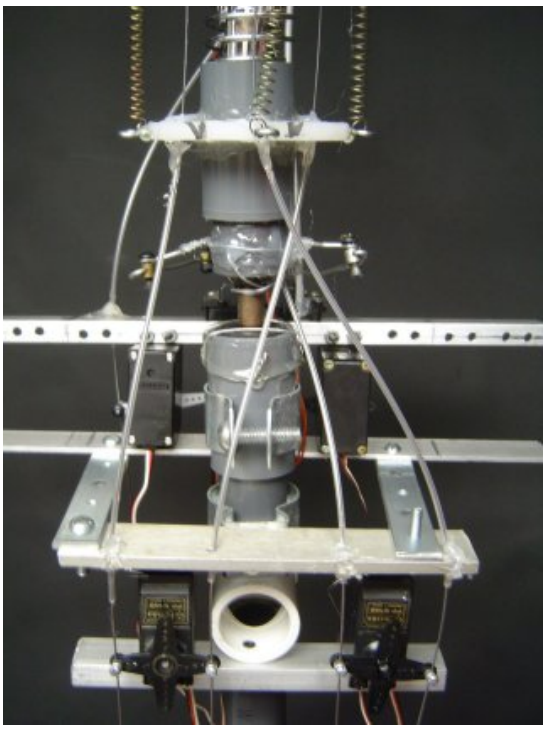
I used some wire to hold it in but its not going anywhere. On the right is the U Joint from Harbor Freight. The springs that are on the U joint help hold the head up pretty good.



Above are some pictures of the neck mechanics. I added the servo rack and hooked up the mouth. Next I`m going to do the eyes and the head noding motions. For the head turning I`ll use one servo behind the neck mounted above the servo rack.



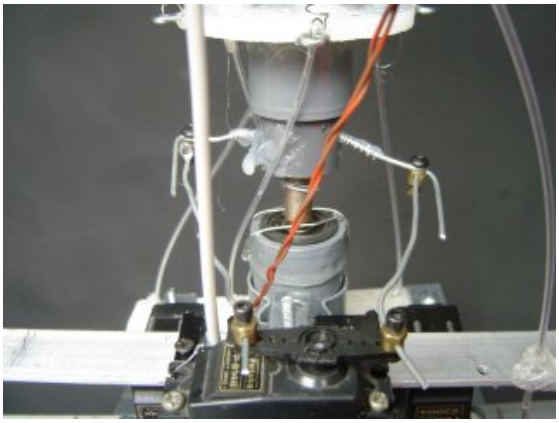
I connected the eyes to a servo and they operate ok. I use wire ties to keep the cable together so the wire in the cable rides smoothly .

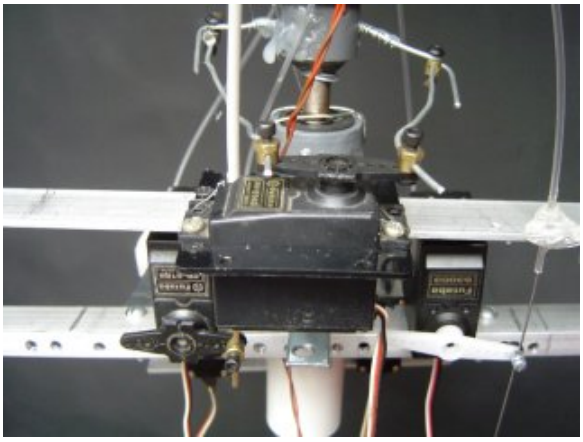


The picture on the left shows the two servos that operate the noding and back & forth movement of the head.

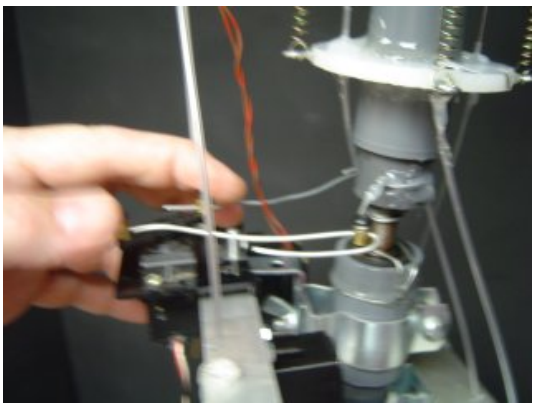
Here is the servo that turns the head.

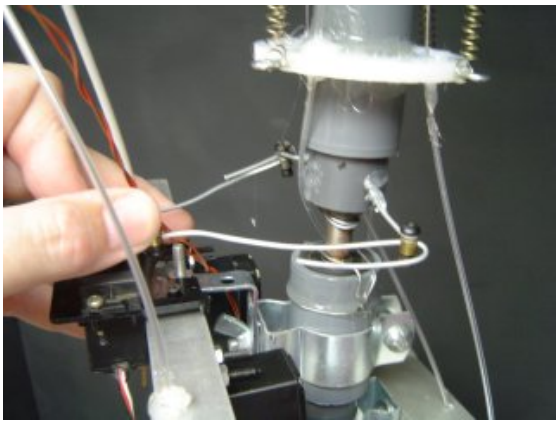
Above are pictures of the eyes. On the left is the back view and on the right is the front. I painted the eyes black first to prevent the red from the led from showing thru. After the black dries I paint it with white paint so when the led is on the red shows only thru the center of the eye. This makes the eye movement look really cool.



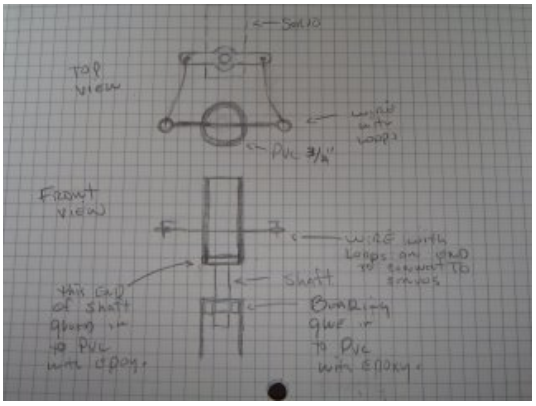


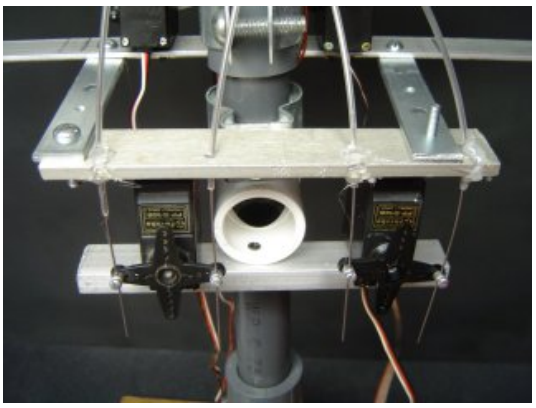
Above are some pictures of the neck movement. I used one servo to push the neck to both the left and right. I have a shaft & a bearing I had laying around that worked really well for this. I just used epoxy to hold the shaft & bearing in the pvc pipe. It spins really smooth. You can see I used pieces of wire to connect the servo to the pvc. I like to use stuff I have so cost is really down on this project.





I`m using my hand to operate the head turning servo in the above pictures. This was easy to build and I may add another turning joint like this at the waist but it will be moving more weight so it has to be stronger.





Here is a drawing of the neck turn mechanics. I added two pieces of flat stock to connect the two servo racks. This prevent the racks from moving and secured everything to the pvc frame better.