

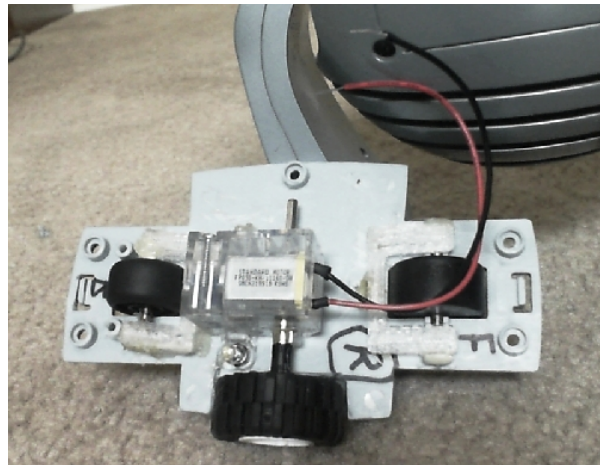
[The Big Rob Robot](#)

**Shaputer Computer
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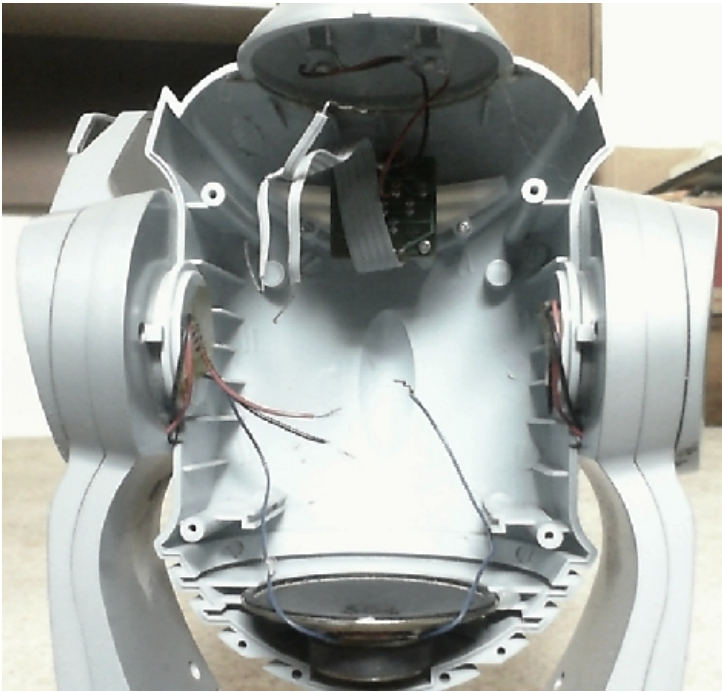


This is the [Minty-Mote](#) controlled **Big Rob Robot**.

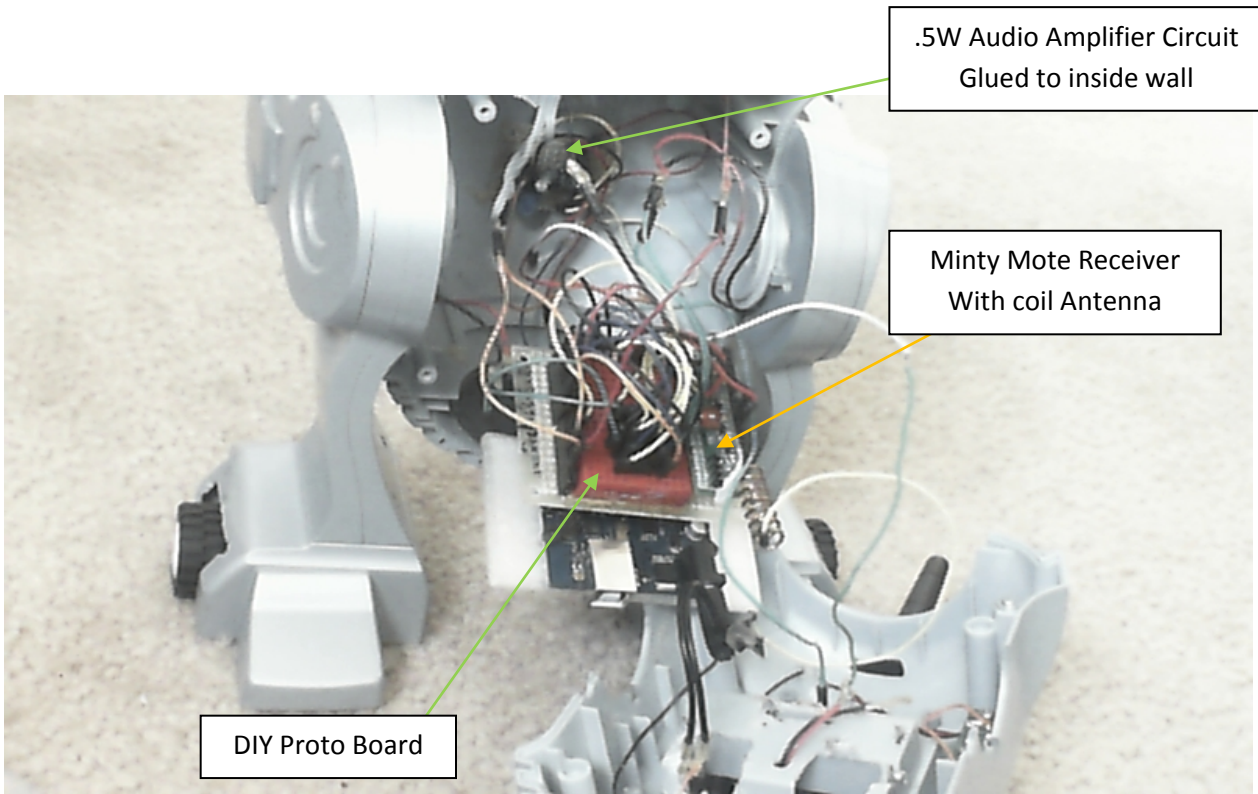
It's based on a Smarter Image retro robot called the [Robo Cub](#) that I got for a dollar at a flea market. The remote was from a box of junk at the flea market and was thrown in for free. The first thing was that his gears were stripped in the wheels so all that was replaced, plus I added the third wheel on the sides that is solid rubber and treaded. It still doesn't perform well on carpet or uneven/rough surfaces.



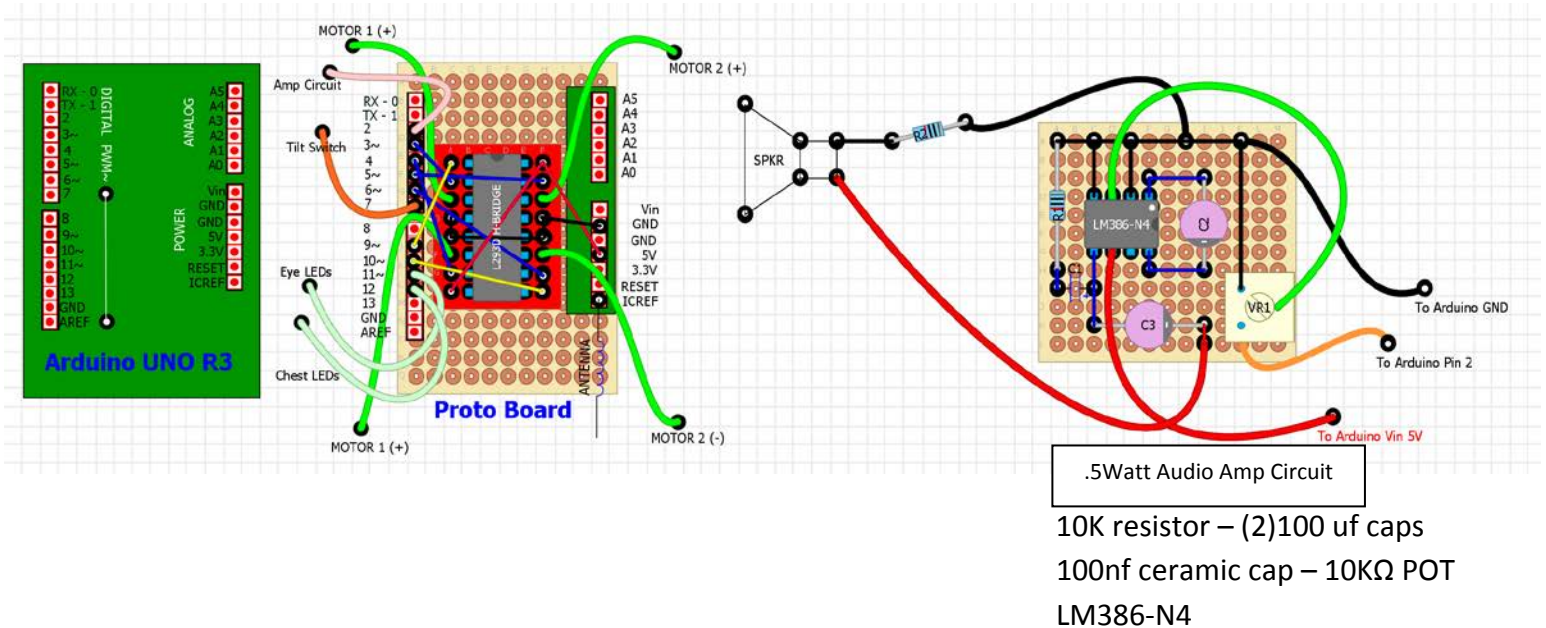
I had to gut the unit. Surprisingly, there was only 1 circuit board in this thing, plus the one on the inside of the chest that controls the chest and eye lights. I had to replace the eyes LEDs, they both blew out after the pictures were taken.



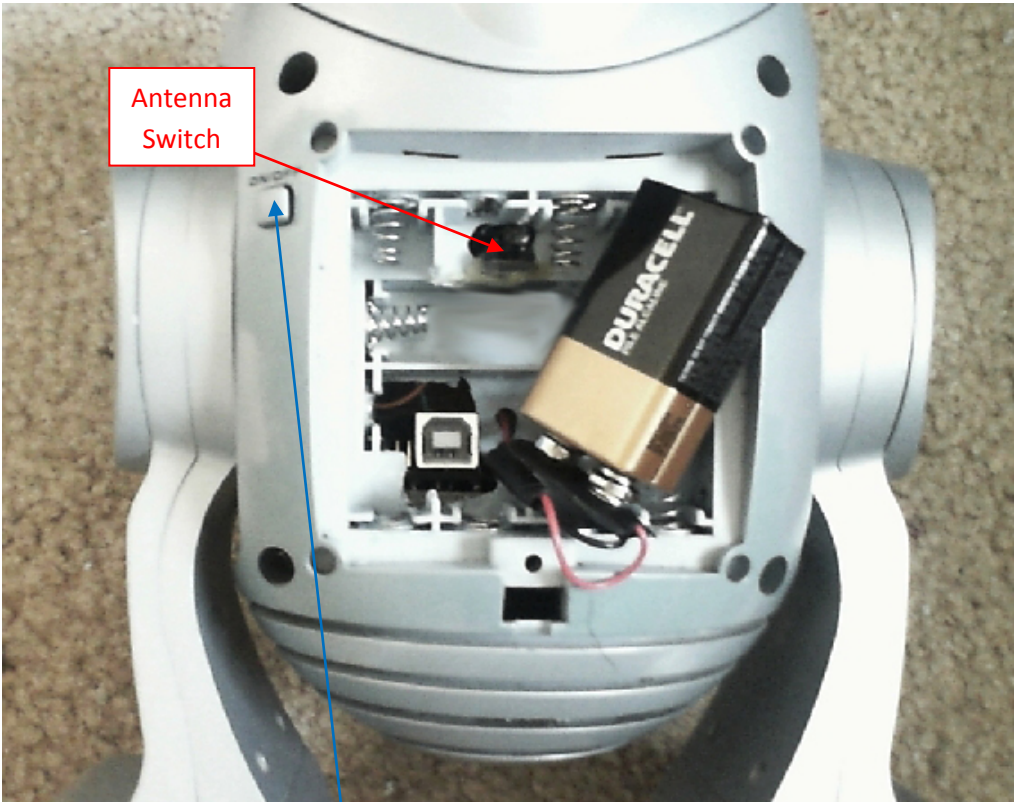
The red chest light remains. Also, you can see the speaker wires (blue) and motor wires on each side. I also used the wire already attached to the antenna on the robot's head to connect to the Minty Mote's receiver coil.



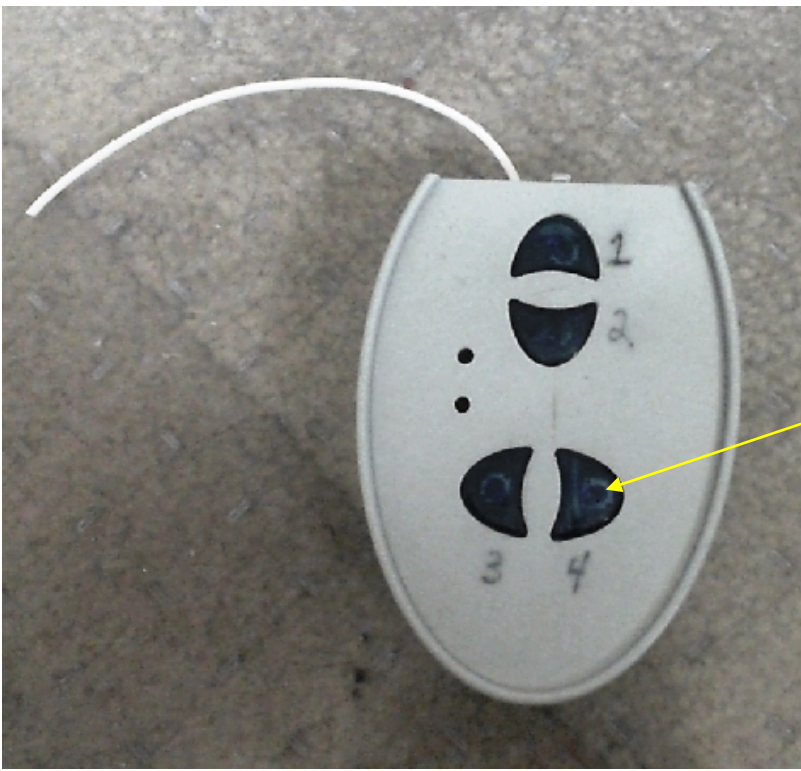
Here is all the circuitry that's inside the robot. The motors are driven by a LM293D H-Bridge. There is a tilt switch on the protoboard in the form of a ball switch which can be obtained from [AdaFruit](http://adafruit.com).



The back has holes for the 9V barrel connector and USB jack of the Arduino for easy re-programming. Also there is a switch to disconnect the antennae when uploading new/updated sketches. This is so the board will sync properly.

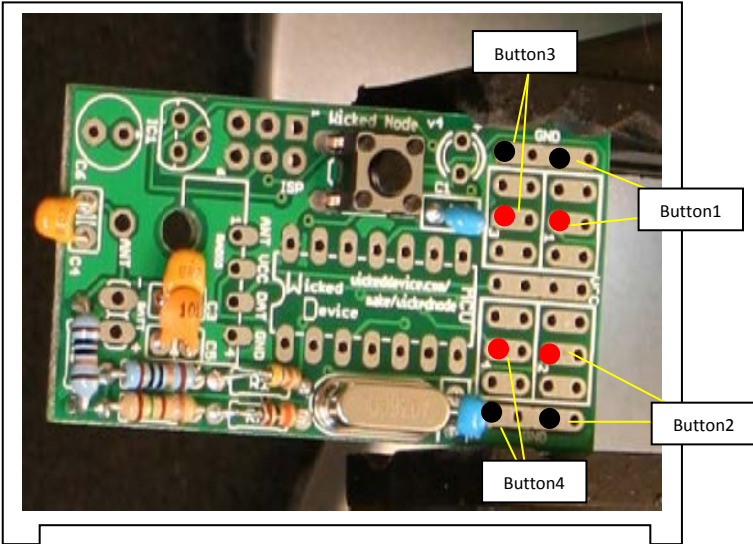
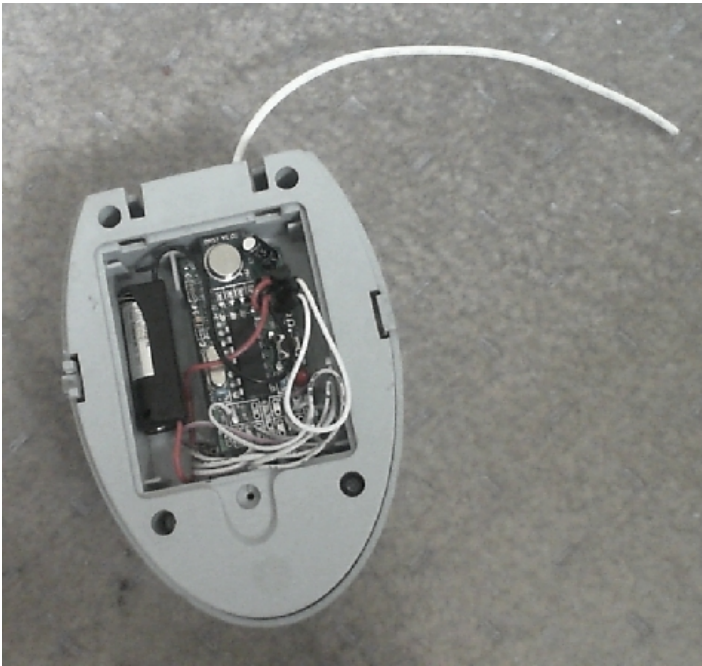


I also utilized the existing **ON-OFF switch**



The Remote has a perf. board in it with 4 push buttons.

The remote has no on-off switch. The A23 battery is the type found in garage door opener remotes and will last a long time because power is only used when a button is pressed.



The picture above shows how to wire the 4 buttons to the receiver board of the Minty Mote.

Download [Minty Mote Arduino Library](#).
Here is the program that makes the Big Rob Robot run:
[Big Rob Robot Arduino Sketch](#)
[Watch The Big Rob Robot In Action !!](#)