

make your own

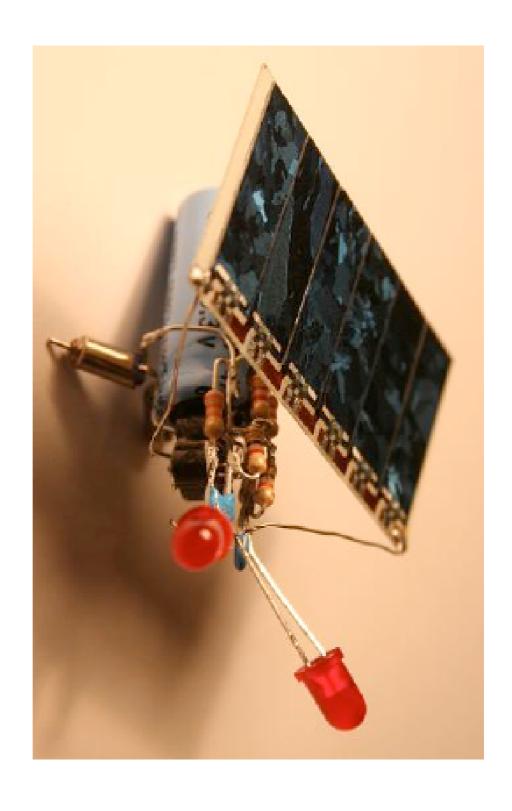
soiar Powered robots

workshop by Varvara Guljajeva



and genrous support from Fritz at pagermotors.com





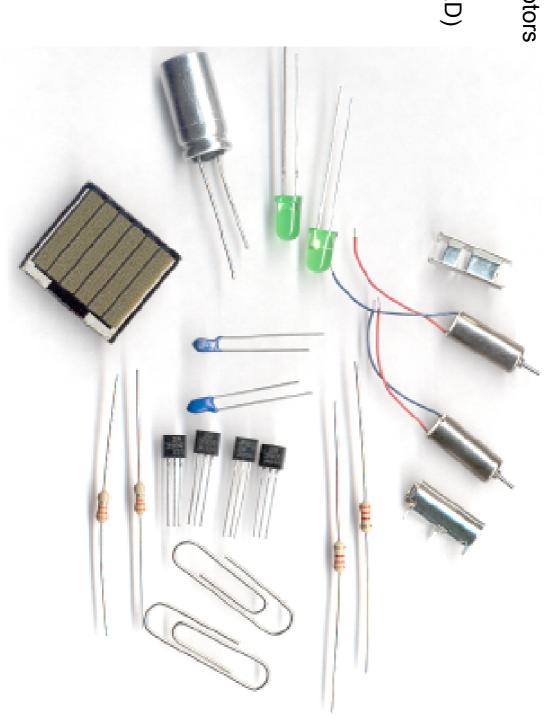
SOLARBOTS at MzTEK Workshop by Varvara Guljajeva

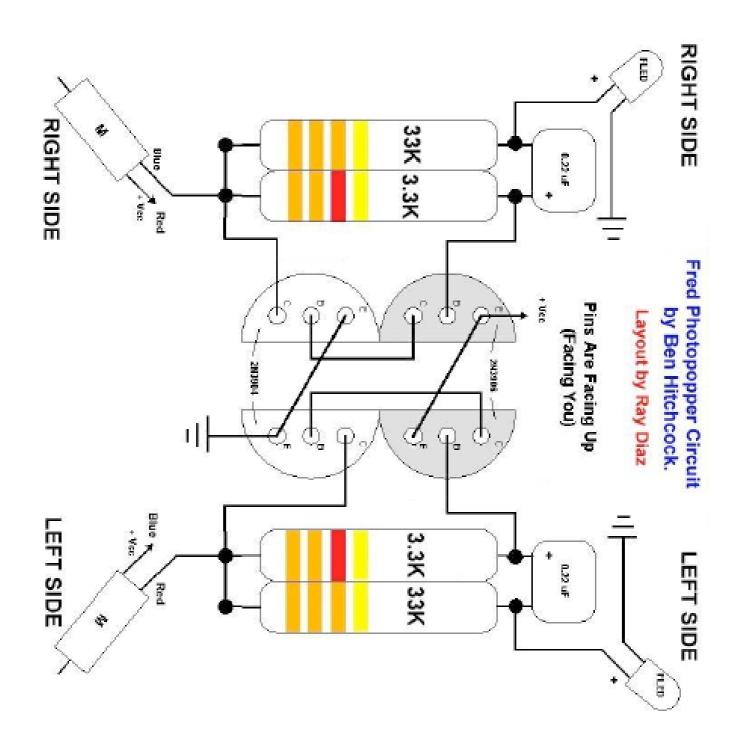
Required parts for the workshop

fuse clips
2x 0.22 uF capacitors
2 x 2N3906 transistors
2 x 2N3904 transistors 3300 uF capacitor

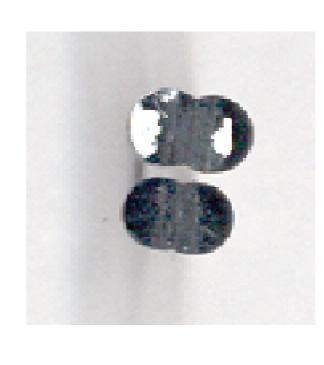
2 x pager or similar motors 2 x 33k resistor 2 x 3.3k resistor

2 x FLED (Flashing LED)

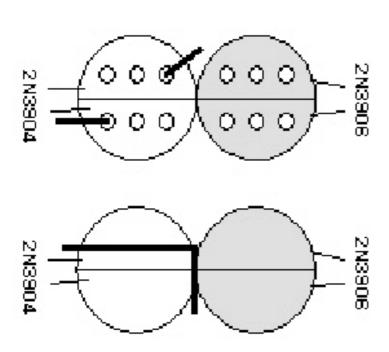




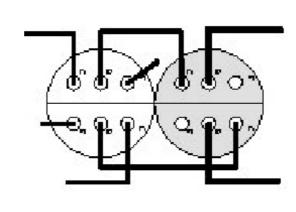
Start with gluing transistors 2N3904 and 2N3906 together. Don't forget to mark different transistors with different color!

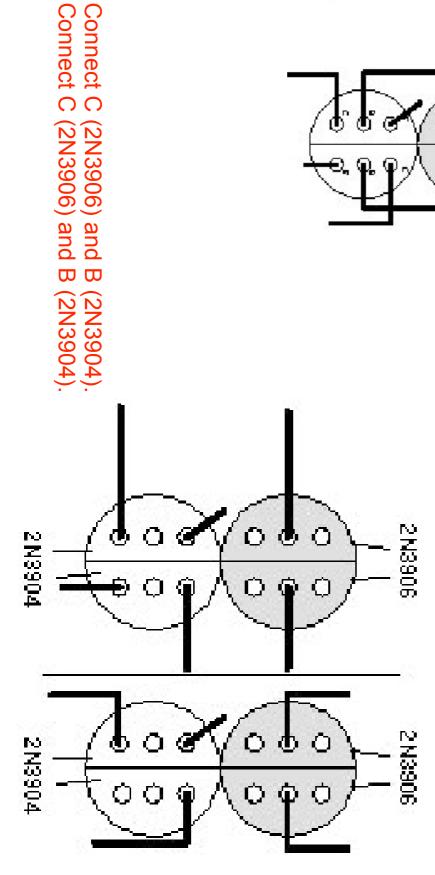


Connect E (2N3904) and E (2N3904). That will be GROUND.

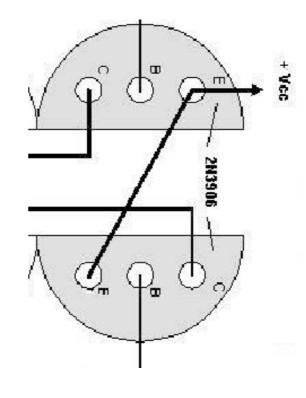


Band B (2N3906) and B (2N3906). Band C (2N3904) and C (2N3904).

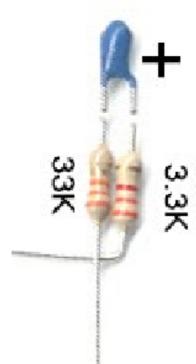




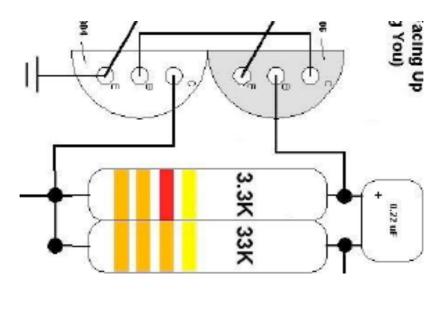
Connect E (2N3906) and E (2N3906). That will go to POWER.

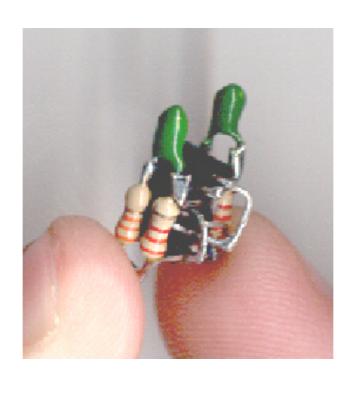


Connect capacitor + part with 3.3K resistor and – part with 33K resistor. Do the same with second capacitor.



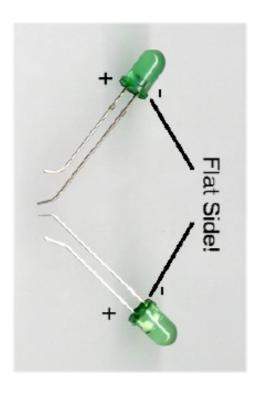
Connect capacitor +part with B(2N3906). Connect resistors with C (2N3904). Do the same with second capacitor set.





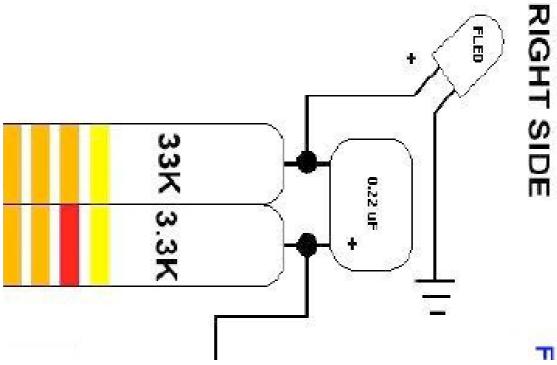
You should have now something like that.

FLEDs

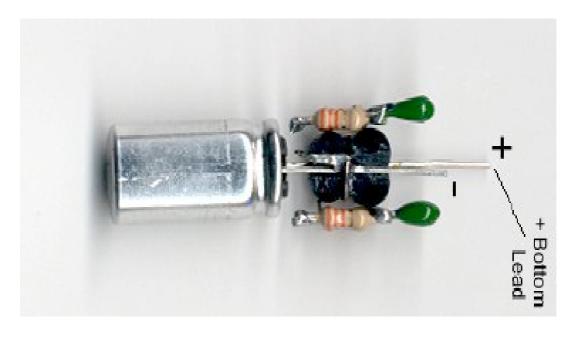


FLED- goes to ground Do the same with left side. Connect FLED+ to capacitor- side.

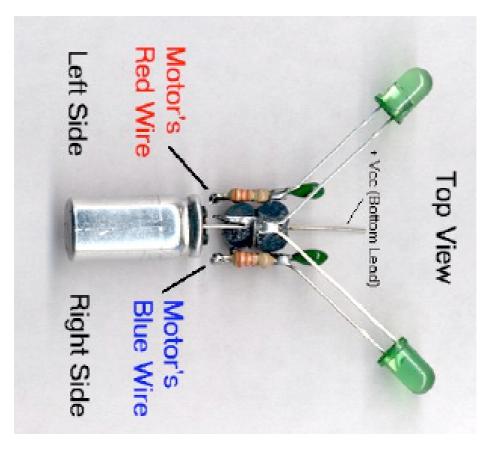
RIGHT SIDE

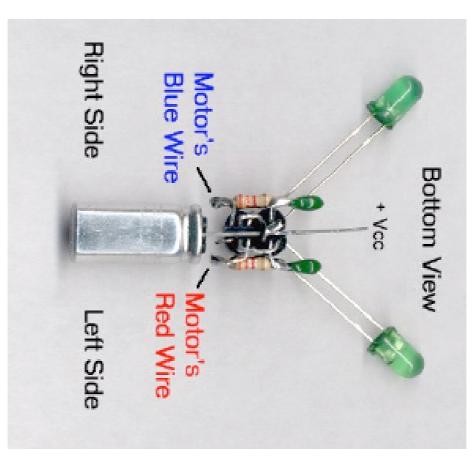


Add big capacitor -side goes to GROUND and +side goes to POWER

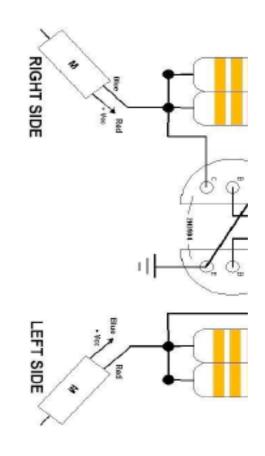


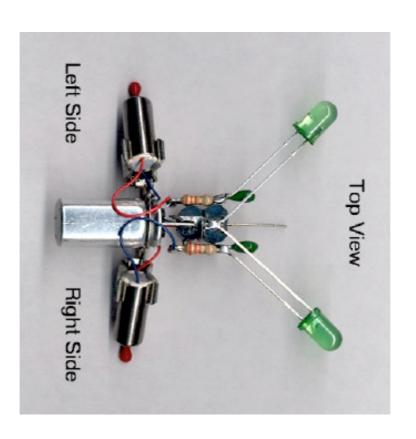
Connect two motors



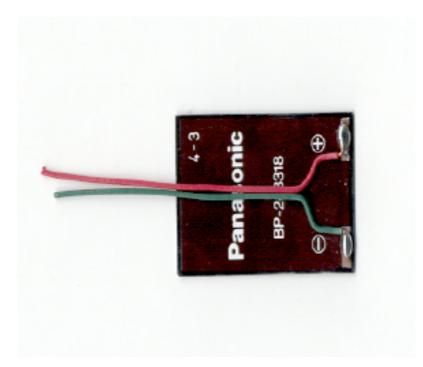


Free wires of motors connect to POWER!





Solder 2 wires to the solar cell





Attach it to the circuit responsible: ground to ground and power to power

