

# JEREMY'S ARDUINO TUTORIAL SERIES

Sponsored by element14

## EPISODE 5: MOTORS AND TRANSISTORS

### WATCH THIS EPISODE

Youtube: <http://www.youtube.com/watch?v=5bHPKU4ybHY>

### PARTS LIST

1. Arduino Uno: <http://us.element-14.com/arduino/a000046/arduino-uno-board/dp/13T9285>
2. USB Cable: <http://us.element-14.com/jsp/search/productdetail.jsp?SKU=73H0884>
3. Arduino Software: <http://arduino.cc/en/Main/Software>
4. Breadboard: <http://us.element-14.com/jsp/search/productdetail.jsp?SKU=17C6965>
5. .1uF capacitor: <http://us.element-14.com/nichicon/uvz1h0r1mdd1td/capacitor-alum-elec-0-1%C2%B5f-50v-radial/dp/65R3169>
6. 22uF capacitor: <http://us.element-14.com/rubycon/50yk22m5x11/capacitor-alum-elect-22uf-50v-radial/dp/38M6812>
7. 5V Regulator: <http://us.element-14.com/jsp/search/productdetail.jsp?SKU=89K0746>
8. 9V Battery Clip: <http://us.element-14.com/bud-industries/hh-3449/battery-clip-9v-wire-lead/dp/34M2183>
9. NPN Transistor: <http://us.element-14.com/jsp/search/productdetail.jsp?SKU=18C9246>
10. 1k ohm Resistor: <http://us.element-14.com/multicomp/mcf-0-25w-1k/resistor-carbon-film-1kohm-250mw/dp/38K0327>
11. 1uF Capacitor: <http://us.element-14.com/vishay-bc-components/k105z205ve5th5/capacitor-ceramic-1uf-25v5v-radial/dp/95C0982>
12. 1N4004 Diode: <http://us.element-14.com/vishay-general-semiconductor/1n4004-e3-54/standard-diode-1a-400v-do-204al/dp/78K2126>
13. IR Distance Sensor: <http://us.element-14.com/sharp/gp20a41sk0f/dp/14N9318>
14. Geared DC Motor: <http://solarbotics.com/products/gm8/>
15. Servo Motor: <http://www.sparkfun.com/products/9064>
16. Jumper Kit: <http://us.element-14.com/3m/923351-i/pcb-accessories/dp/65F2290>