

# JEREMY'S ARDUINO TUTORIAL SERIES

Sponsored by element14

## EPISODE 3: ELECTRICAL ENGINEERING BASICS

### WATCH THIS EPISODE

Youtube: [http://www.youtube.com/watch?v=abWCy\\_aOSwY](http://www.youtube.com/watch?v=abWCy_aOSwY)

### 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. LEDs: <http://us.element-14.com/jsp/search/productdetail.jsp?SKU=30K0645>
6. 150 ohm Resistor: <http://us.element-14.com/multicomp/mcf-0-25w-150r/resistor-carbon-film-150ohm-250mw/dp/38K0339>
7. .1uF capacitor: <http://us.element-14.com/nichicon/uvz1h0r1mdd1td/capacitor-alum-elec-0-1%C2%B5f-50v-radial/dp/65R3169>
8. 22uF capacitor: <http://us.element-14.com/rubycon/50yk22m5x11/capacitor-alum-elect-22uf-50v-radial/dp/38M6812>
9. 5V Regulator: <http://us.element-14.com/jsp/search/productdetail.jsp?SKU=89K0746>
10. 10k Potentiometer: <http://www.sparkfun.com/products/9939>
11. 9V Battery Clip: <http://us.element-14.com/bud-industries/hh-3449/battery-clip-9v-wire-lead/dp/34M2183>
12. Pushbutton: <http://us.element-14.com/c-k/ksl1m411-lft/switch-tactile-spst-no-50ma-thd/dp/88K5321>
13. Jumper Kit: <http://us.element-14.com/3m/923351-i/pcb-accessories/dp/65F2290>
14. Multimeter: any will do.