Battery Shield
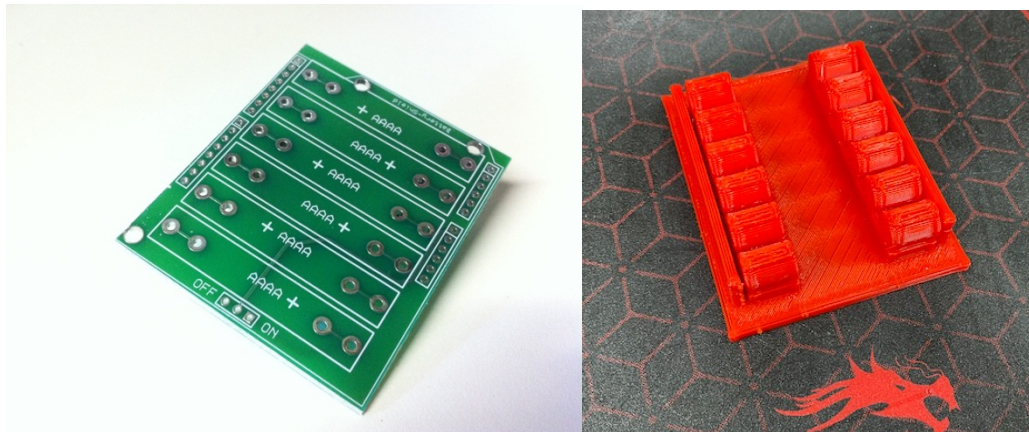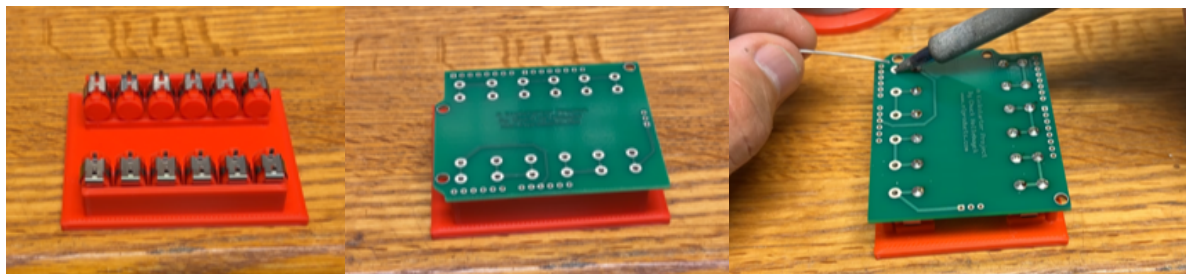
Parts List
12 – AAAA Battery Clip (Digikey #36-51-ND)
1 – Slide Switch (Digikey #EG1903-ND)
1 – Battery Shield Circuit Board (http://www.elproducts.com/shields.html)
1 - Optional 3D Print (https://social.thangs.com/m/204311)

3D Print the base to hold the clips, install the board over the clips and solder the battery clips to the board.


Another option (if you don't have a 3D printer) is to use helping hands to solder them in place.
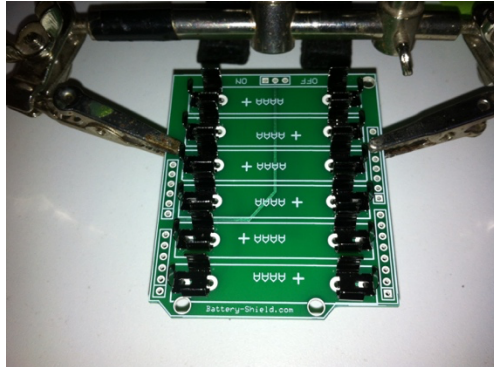
Solder each battery clip on the top side of the board with just enough to hold the clamp temporarily in place. Make sure the clamp is pushed as far to the outside of the board as possible while still keeping the tabs inside the holes.

Make sure all clamps have been soldered on top before moving on to the next step.

Now flip the board over so you can solder the bottom of the board.
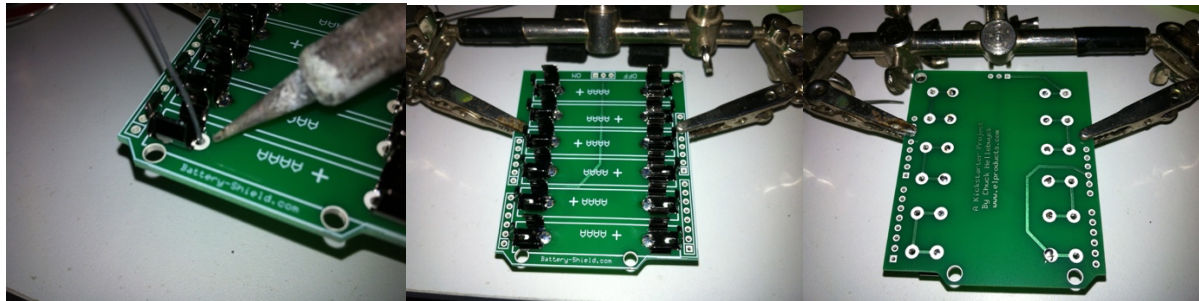
Solder both pads of each battery clamp on the bottom so all the battery clamps are solidly in place.

Now insert the switch into the circuit board from the top side.

Hold the solder with one of the helping hand clips. Then hold the switch in place with one hand and bring the soldering iron up to the pad with your other hand. Solder the switch in place.

Now insert the Arduino style header connectors in the board one at a time. Again let the helping hand hold the solder while you use your two hands to solder the connector in place. Only solder one pin of the connector and then check it to make sure the connector is straight and perpendicular to the circuit board. Do this for each of the four connectors.

Finish soldering all connections to the switch and Arduino connectors and then clean off the flux. Insert six AAAA batteries and you are ready to power your Arduino style module with the Battery-Shield.