

## **Explanation of Block Diagram**

- Power source to microprocessor will be prototyped to come from the PCB, supplied by the battery.
- The same power source will be used in conjunction with the button to generate the input signal—pressed button will close a circuit that will input to the microprocessor. The way to differentiate inputs will be based on how long the button is pressed.
- The input will be processed by microprocessor (powered by the battery), which will determine the output.
- The output will be sent to the PCB, where the LED is connected.
- The output signal itself will power the LED—that power comes originally from the battery via the microprocessor.