**Team Meeting 1/26/17**

* Thinking constantly displaying battery would take more battery
* Schafer’s idea: can have warning light (that’s not always on), clearly dont want a power on LED- if you could give a concept of how much charge is left that is more useful
* **Button**: clears alert, maybe second button to light up display?
* Schafer’s Idea: Short press or long press
* **Hub**: Raspberry pi 3, both wifi and bluetooth built in- buy 2 raspberry pi’s?
* Schafer’s idea: Initially just use one raspberry pi, maybe 2 later.
* Creating own wifi network? **Just connect to wifi in the house**
* **Wifi communication between hubs?**
* Schafer’s Idea: create TCP connection between two to exchange information.
* Use raspberry bi, connect by ethernet in two separate rooms and try to communicate
* ESP266, when wifi comes up it comes up as station on phone that you can connect to, use like a browser page
* Raspberry Pi Plugins (for Charging)?
* Schafer’s Idea: The Pi’s have a micro usb that can plug into a charger. Put wall adapter in the parts but Schafer also has some in office
* List all parts but also identify what’s on the common parts list (i.e. resistors, DC-DC convertors, inductors, etc.)
* Get Samson Mics extra early- can’t do much audio processing without it.
* **Fuel Gauge Chip: Maxim** Built in algorithm that detects charge- doesnt do charge managing- gives data via I2C
* Schafer’s Idea: Must have companion part that does charge management
* Microphone/Audio Stuff: Figure out how raspberry pi will “learn” the smoke alarms
* Schafer’s Idea: Maybe SSH into computer? But not necessarily
* Schafer’s Idea: Typically order more than one board, will have many piece parts (surface mount capacitors order 10 instead of 1)
* **When ordering, put the number of parts the design requires!**
* Display?
* Schafer’s Idea: Adafruit Breakout Board with Display- will be put in cart with email sent
* Fuel Gauge Chip Questions: Solder Points on bottom- can we use it? No, can’t use it! They will probably have it in other forms that work better. Need a multilayer board to get everything out- packages can be pretty dense.