**Dev Shah**

#### WEEK 3:

**Date:** 1/28/22  
**Total hours:** 5  
**Description of design efforts:**  
This week, I helped my team revise our PSSCs to better fit with the feedback we received from the professor and TA. One feedback we received was to be more specific with how the user would get notified when the battery is low. It was decided that the user would get notified by a buzzer, so I researched buzzers we could use with the ESP32. I found a piezo buzzer, PS1240, that works. This buzzer works with voltages ranging from 3V to 30V and can produce tones from 2KHz to 10KHz, allowing us to determine how we want the buzzer to sound.  
  
This week, I also learned how to program the ESP32. Because other team members have prior knowledge doing so, we decided that the microcontroller will be programmed using MicroPython. I researched various aspects of MicroPython such as how to use the controller’s pins, timers, and communication bus.