**Astroscale Task List**

I created a function corresponding to the names of the requested tasks. You can find the usage of these functions in the “main.c” file. I could add more features related to the project, but I only did as much as I wanted.

**1-)Get the ADC mode function name.**

ADC\_Mode\_t LTC2943\_GetADCMode(void);

**2-)Change the ADC mode to automatic, scan, manual or sleep function name.**

bool LTC2943\_SetADCMode(ADC\_Mode\_t mode);

**3-)Check if there is a temperature alert function name.**

Alert\_t LTC2943\_CheckTempretureAlert(void);

**4-)Set the charge thresholds.**

bool LTC2943\_SetChargeThreshold(ChargeThreshold\_t threshold);

**5-)Check that the charge is within thresholds function name.**

Alert\_t LTC2943\_CheckChargeThreshold(void);

Question: without implementation, how would you handle this IO interface in a RTOS environment?

1-) I use thread for different mode, the purpose of this is to run the processor in parallel for performance.

**Chips Modes ;**

**Scan Mode:** When the chip is put into scanning mode, it measures every 10 seconds, reads current voltage and temperature information every 10 seconds

**Automatic Mode:** In this mode, the chip continuously reads the current voltage and temperature data,

**Thread use for chip scan mode:** thread for Scan mode 10 second thread i can use.

**Thread use for chip Automatic mode:** i can use any specific thread for this i can make polling.

**2-)** I use mutex for critical section.

**3-)** I use data queue.

**4-)** I can make different and additional choices according to the RTOS features.