Remote Activation

Program Starts

Data Initialize

Wakeup MSP430

Enter LP4

Disarm wakeup interrupt

AD9833 enable

Timer enable

ADC enable

New file created

Timer Interrupt

ADC sample & conversion

Data Ready?

Yes

Write to SD card

All data collected?

No****

Writing complete?

No

Turn off ADC & Timer

Yes

Turn off AD9833

Rearm wakeup interrupt

Check for new data in buffer and write it to the microSD card.

Set direction of pins and create new file using FAT file system.

Allot space in RAM for incoming ADC data.

Define pins for SPI communication with microSD card.