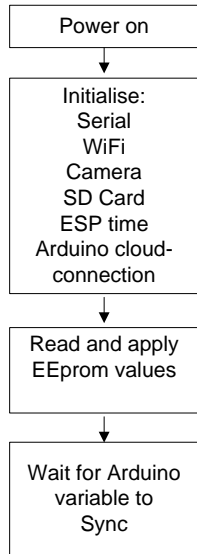
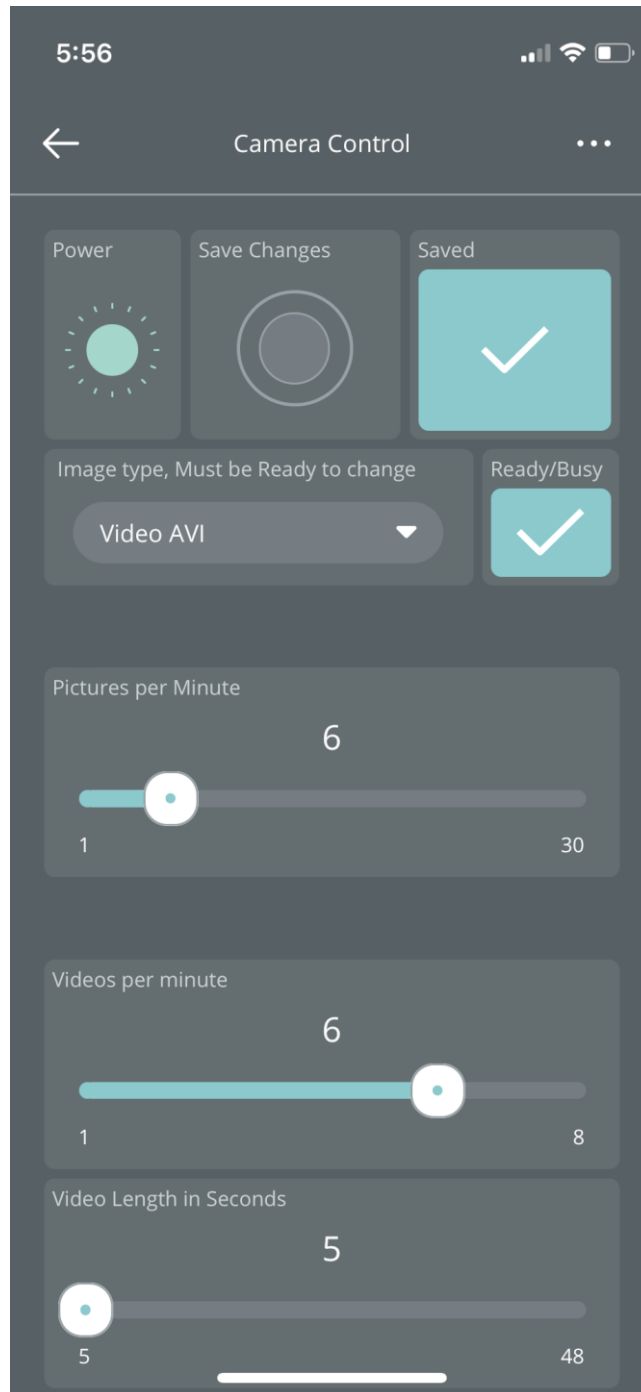
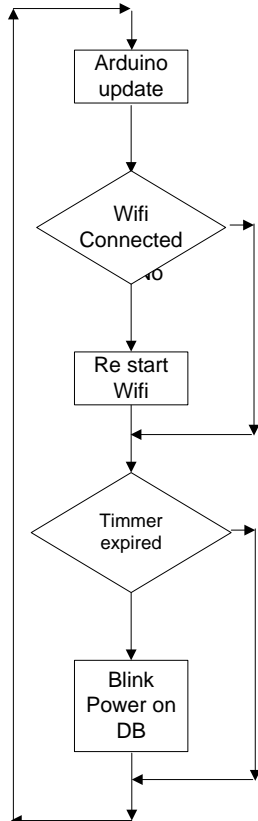


## Software flow diagram

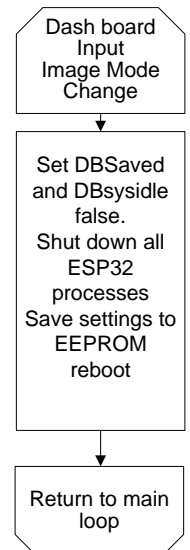
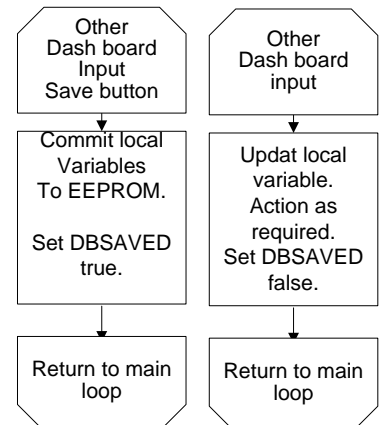
### Setup



### Main loop



### Asynchronous Event driven function



### Operation

#### Dash board controls

1. Image Mode, switches capture mode between AVI (video) or JPG (Still).
2. Pictures per minute, sets number of jpg images captured per minute during an alarm. (1 to 30)
3. Videos per minute, sets number of AVI files captured per minute during an alarm. (1 to 8)
4. Video length in seconds, sets max length of each avi file. Total length of all videos per minute is limited to 48 seconds.
5. Save changes, saves the settings above to EEPROM.

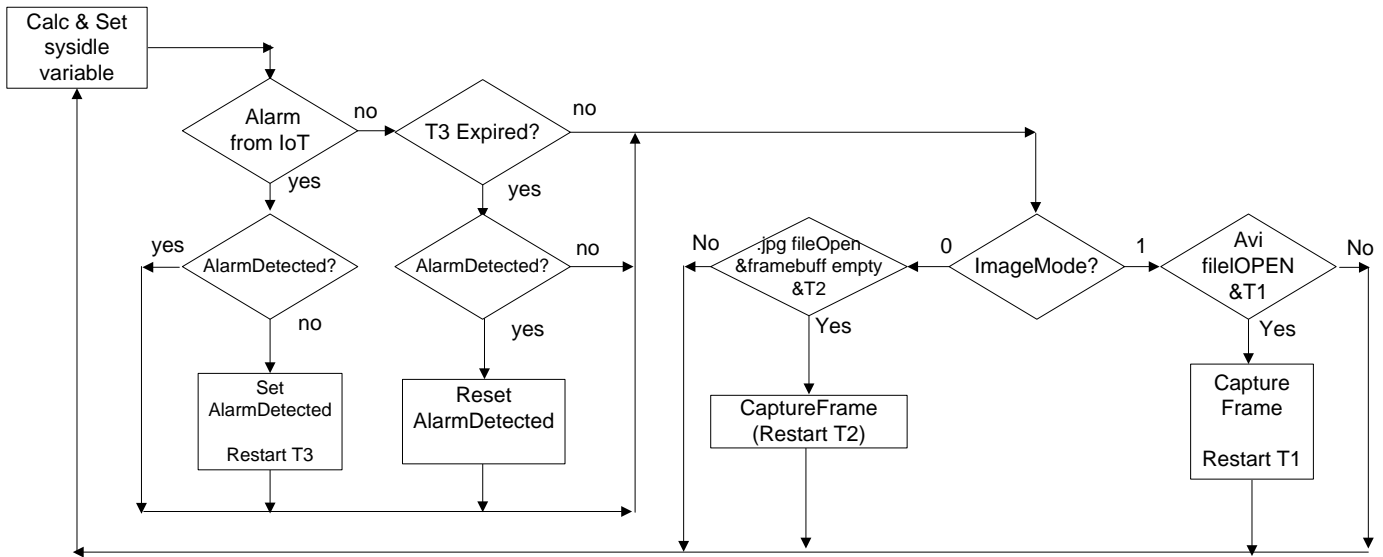
#### Dash board status indicators.

1. Saved, indicates if settings are save or not.
2. Ready/Busy, indicates if system is busy ( alarm condition active, or uploading files to google) or idle
3. Power, when flashing indicates camera is powered up and running.
4. PIR's (1-4) shows status of the PIR, red in alarm, green clear.

#### Alarm input

1. The IoT shared variable RemoteAL is triggered when the linked Alarm Controller detects an alarm.

## Core 0 Task



Timers	Description	(variable name)
T1	Time interval between AVI file frames (FRAME_INTERVAL)	
T2	Time interval between .jpg image captures. (JpgInterval)	
T3	Minimum hold time for an alarm event (Alarm_DELAY)	
T4	Minimum interval between AVI files (AviInterval)	
T5	Maximum length if AVI file (MaxAviLen)	
T6	Minimum system idle time before upload to Google drive (GDLockoutInterval)	

## Core 1 Task

