[CAM WORKS]

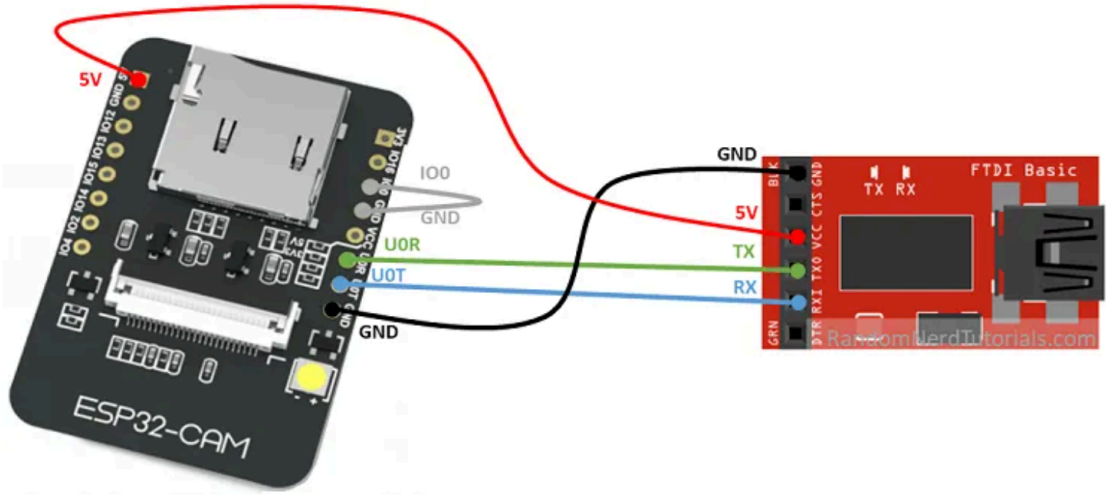
Ordering ESP32 CAM to Take Picture From Arduino Keypad

1. Upload ESP_Try_pIC Code into ESP32 Cam using FTDI programmer.

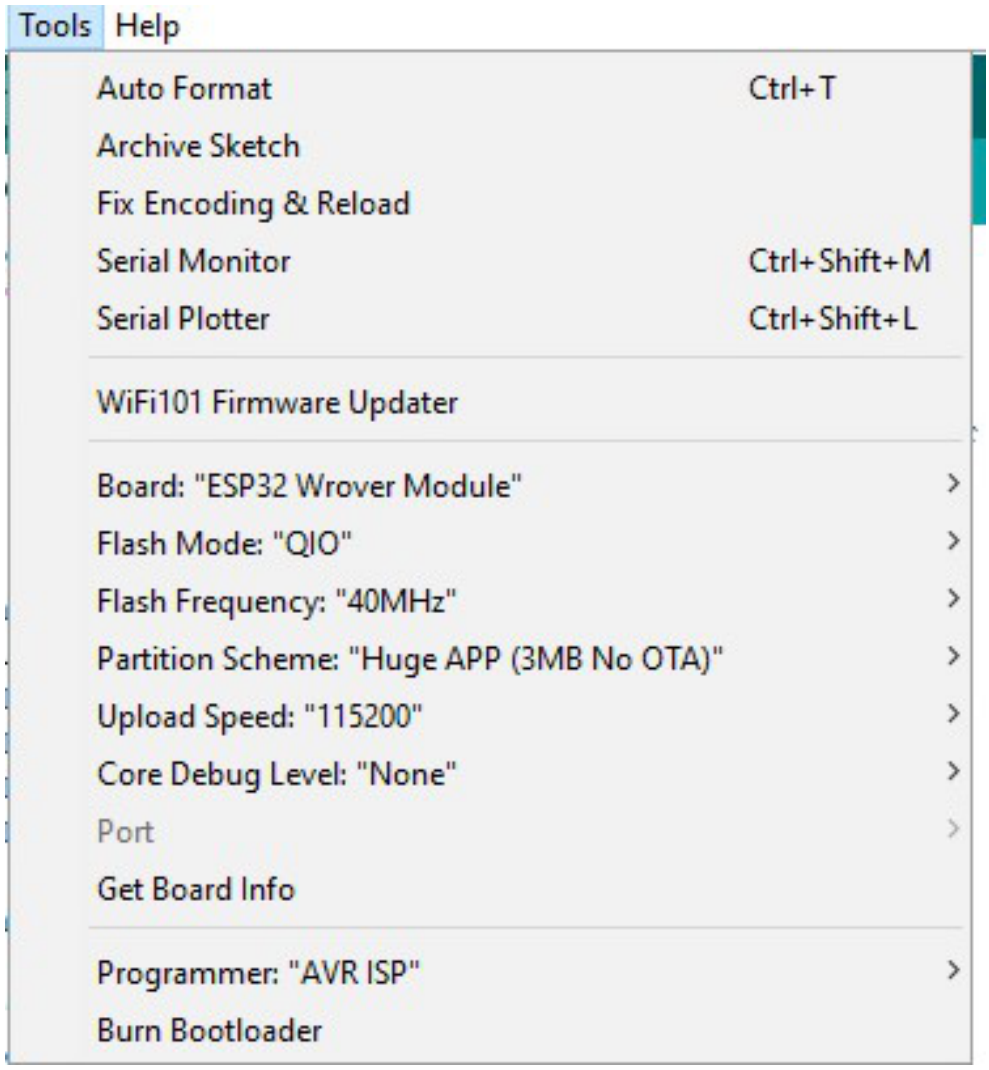
The code is basically from https://randomnerdtutorials.com/raspberry-pi-motion-detector-photo-capture/ but

- delay(200) in first line of setup
- esp_sleep_enable_ext0_wakeup(GPIO_NUM_4, 1);

The circuit is given below:



The board settings:



2. Upload code to Arduino using Arduino_StoreHomeroomPicReal
   - Lesson: pin GPIO4 is occupied for pin 13 to digitalWrite HIGH to, but GPIO4 is also responsible for SD card so it didn't work. Had to set pin 13 (connected to GPIO4) to INPUT so it wouldn't send data to occupy GPIO4 and that GPIO4 can access SD card, then digitalWrite HIGH and it could take a picture

When uploading code, only keypad is plugged in.

3. Schematic between ESP32 - Arduino after code is uploaded

ESP32 5V - Arduino 5V
ESP32 GND - Arduino GND
ESP32 TX - Arduino RX
ESP32 RX - Arduino TX (data doesn't read, it did at first but not anymore)
*ESP32 GPIO4 - Arduino 13 (important)

(the 5v and GND connections are just for power, can use alternate power source)

4. Enjoy, the picture should be taken when any key from the keypad is pressed.