ESP32 CAM

<https://www.amazon.com/ESP32-CAM-ESP32-CAM-MB-Bluetooth-Development-CH340G/dp/B0CBQ7DDM8/>

It is Wi-Fi capable (802.11b/g/n)  
Bluetooth capable (4.2 with BLE)  
Built-in LED Flash  
9 IO ports  
Supports UART, SPI, I2C and PWM  
Built-in micro SD card reader  
Input power: 3.3V / 5V

Doesn’t support USB port, need to use UART pins to upload code. The amazon link have the board for Micro USB to Serial Port.

There are various libraries for ESP32 in Arduino

Potential strategy:

1: use MSP432 to trigger ESP32 cam to take picture and save in the SD card

2: use serial port to transmit image through Bluetooth. Could be slow considering the size of the image and baud rate.

Pixy Cam

Uses USB port

No SD card socket, WiFi, Bluetooth module

Has Libraries and cable for Arduino board

Built in servo control port