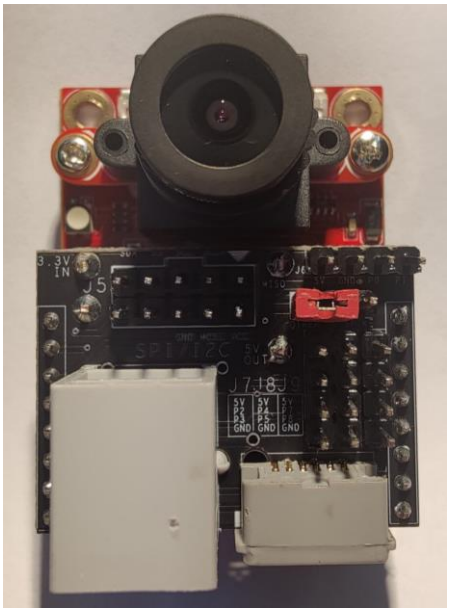
OpenMV I/F Board
USERS GUIDE

[Rev 1.0]



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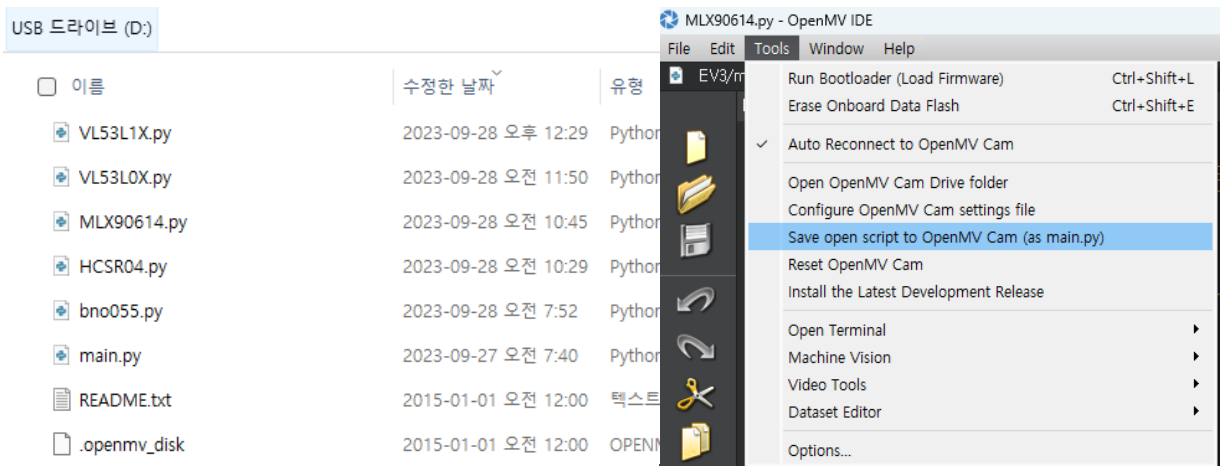
READ ME FIRST!

THIS IS APPLICATION WITH OpenMV I/F BOARD

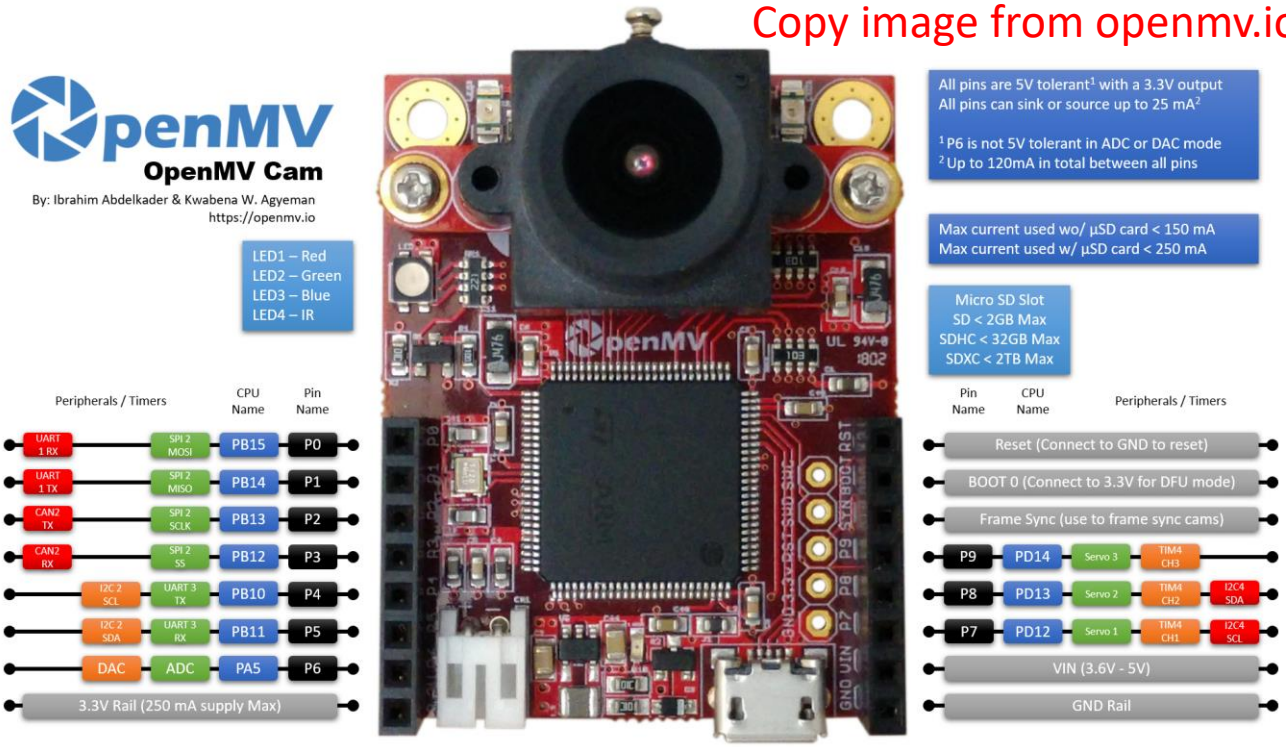
- **Be careful of electrical shorts.**
- **A short circuit may damage peripheral devices.**
- **Any damage caused by a short circuit is entirely the responsibility of the user.**
- **Unless there is a soldering defect, there is no reason for the board to fail.**
- **Except for initial component defects or soldering defects, we are not eligible for A/S.**
- **Handle with care.**
- **You must be very careful when connecting electrical signals.**
- **Sample sources and resources related to each example can be found at https://github.com/hakyungi/Codes**

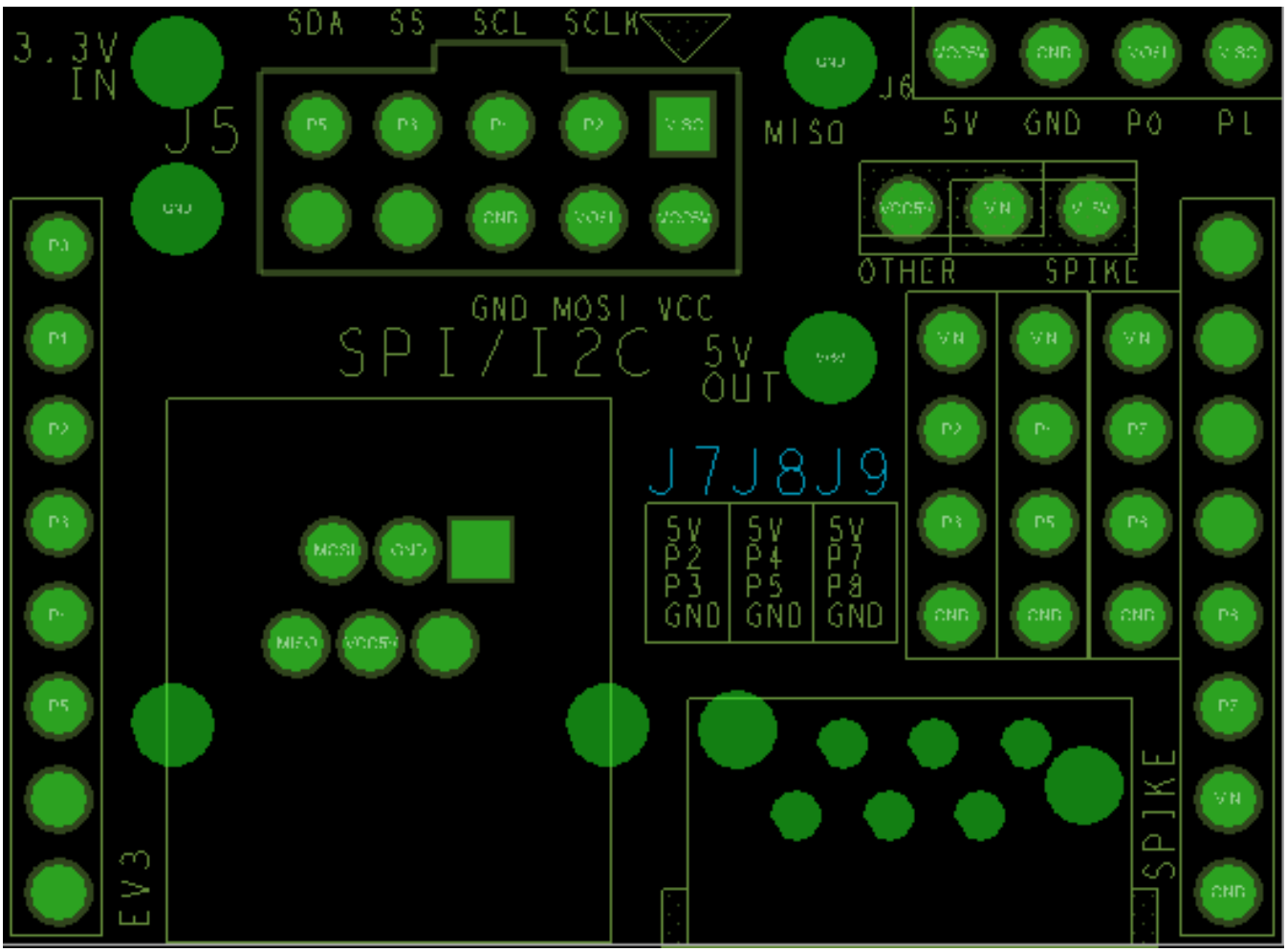


- **Save the module files to your OpenMV drive.**
- **OpenMV Camera runs main.py when powered on.**
- **When you are finished developing, save the program as main.py in the OpenMV drive.**

BOARD IMAGE

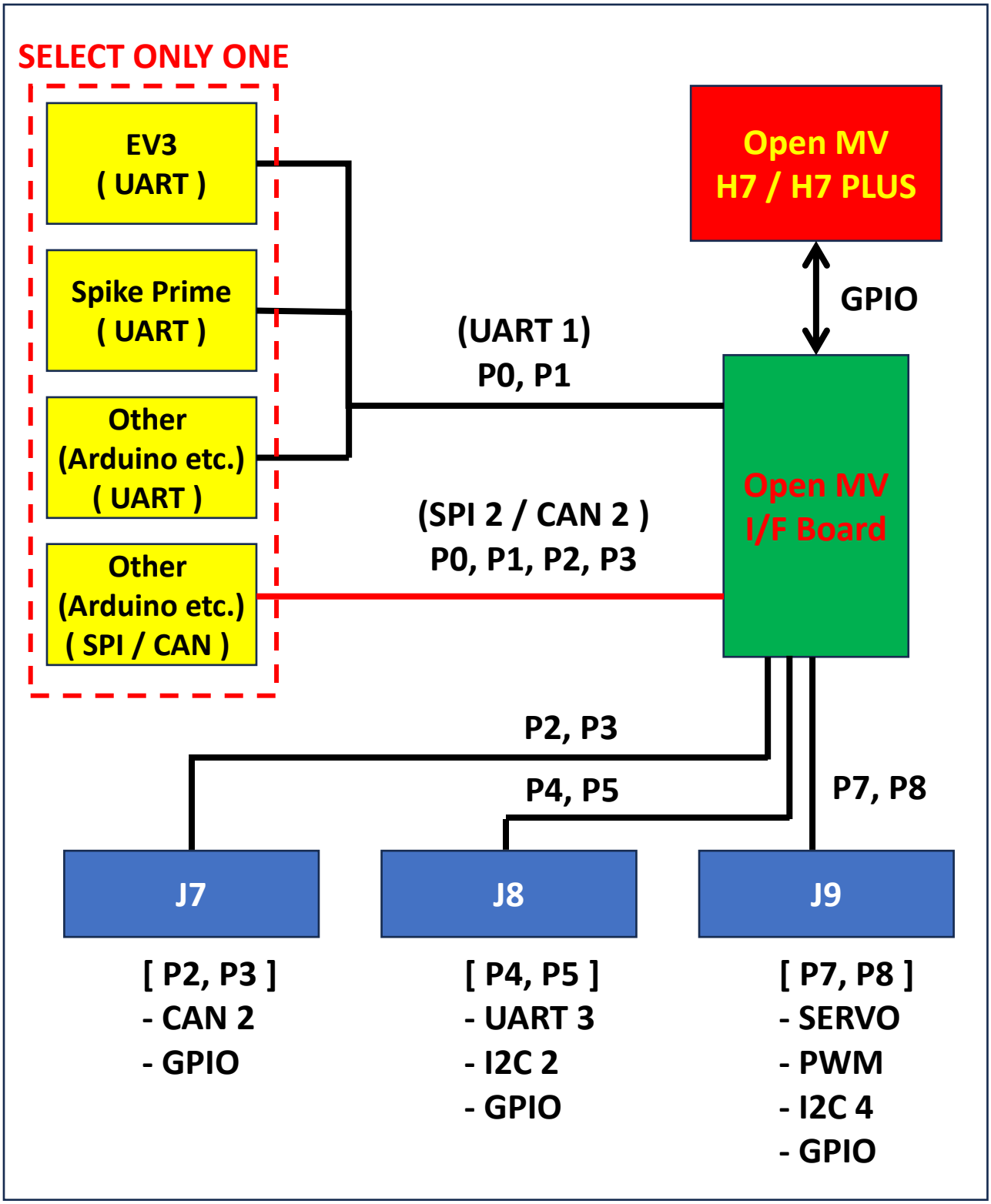
Copy image from openmv.io



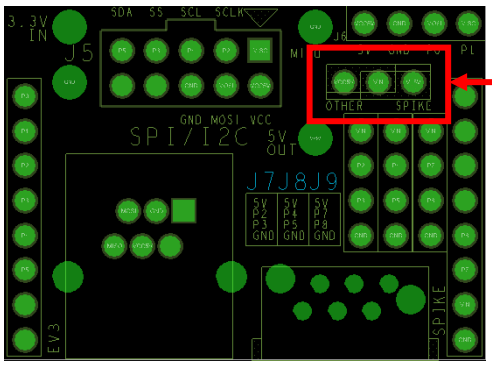


OpenMV I/F Board

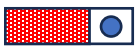
BLOCK DIAGRAM



VOLTAGE SELECTION

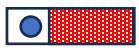


VOLTAGE SELECT JUMPER



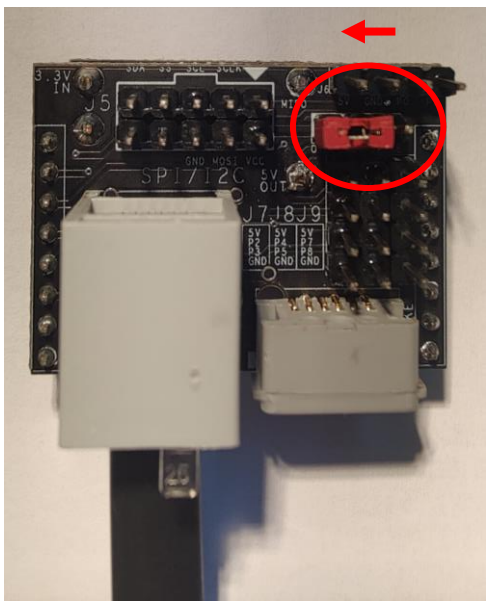
5V SOURCE

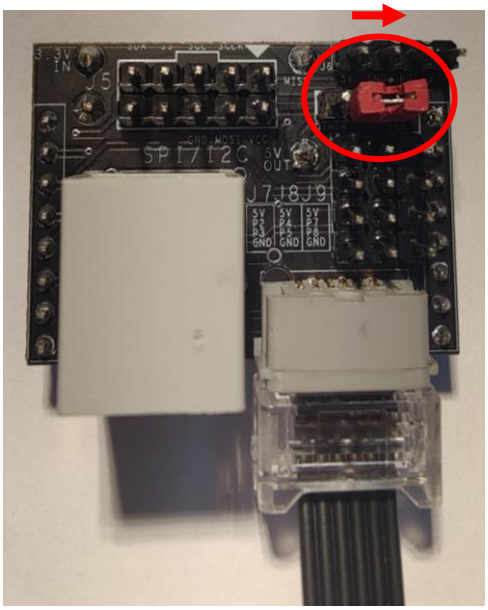
EV3



3.3V SOURCE

SPIKE PRIME

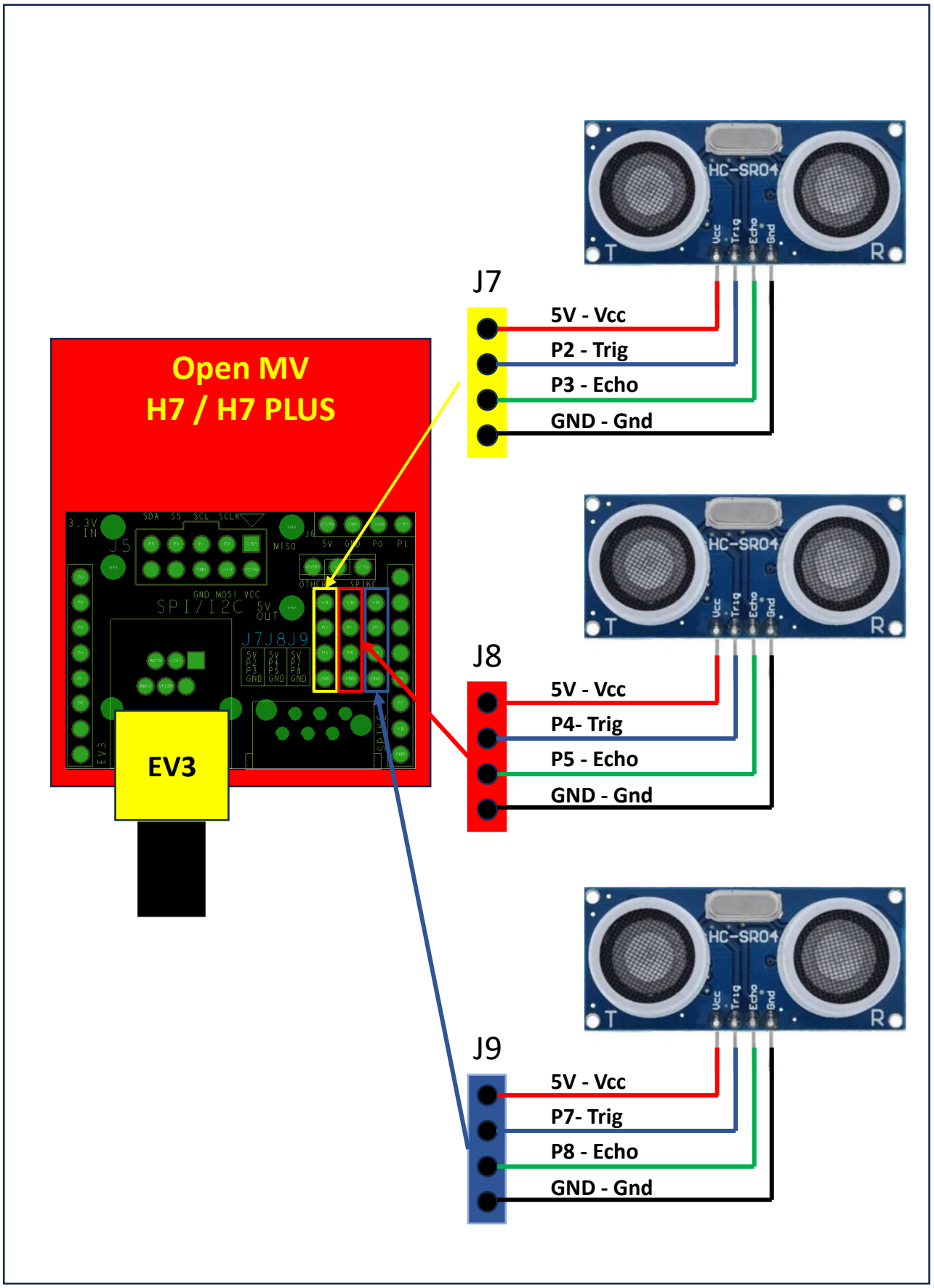




THIS IS VERY IMPORTANT FOR SPIKE PRIME

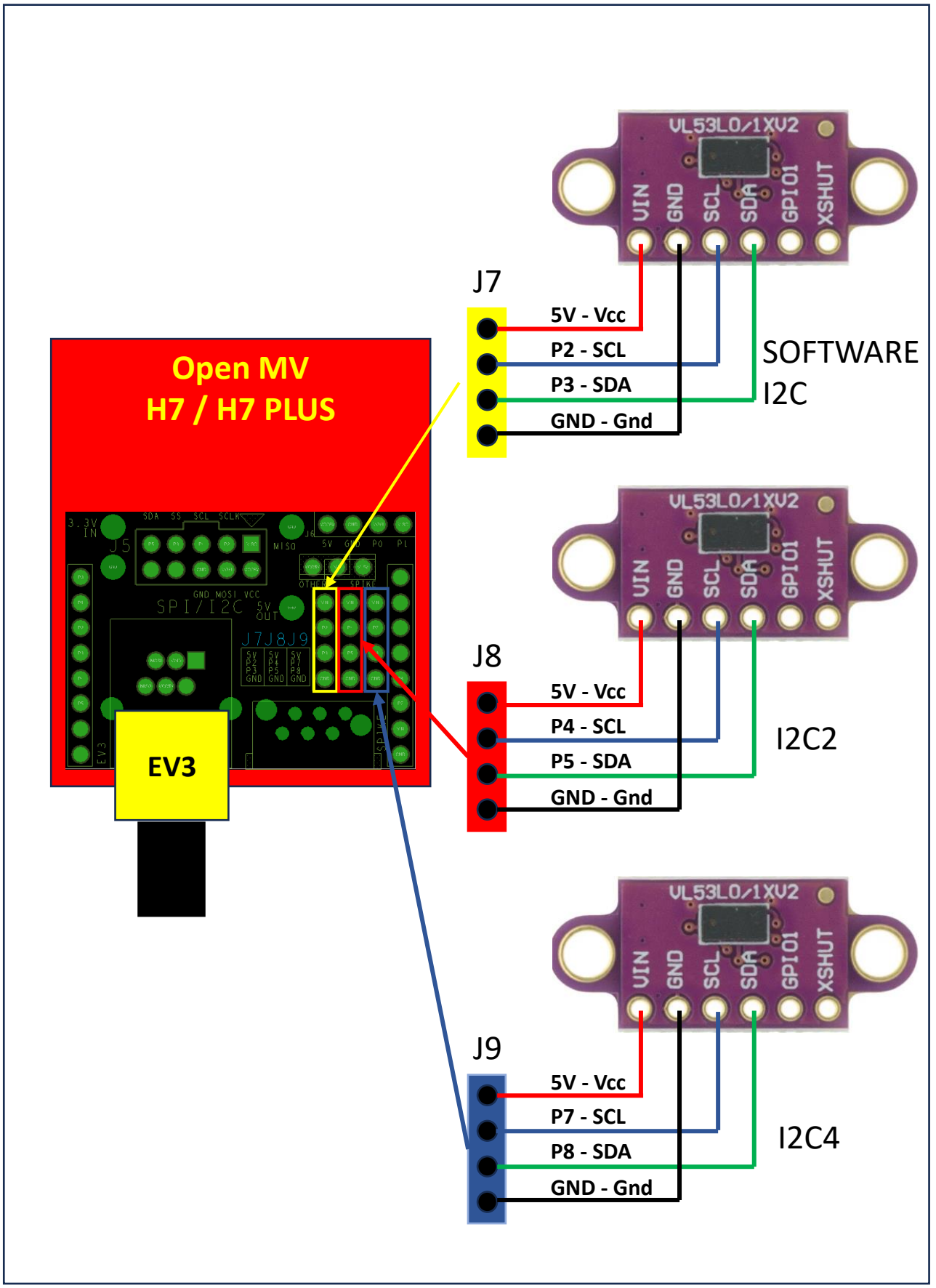
EXAMPLE (USE GPIO)

EV3(or Spike Prime) + OpenMV Camera + HC-SR04



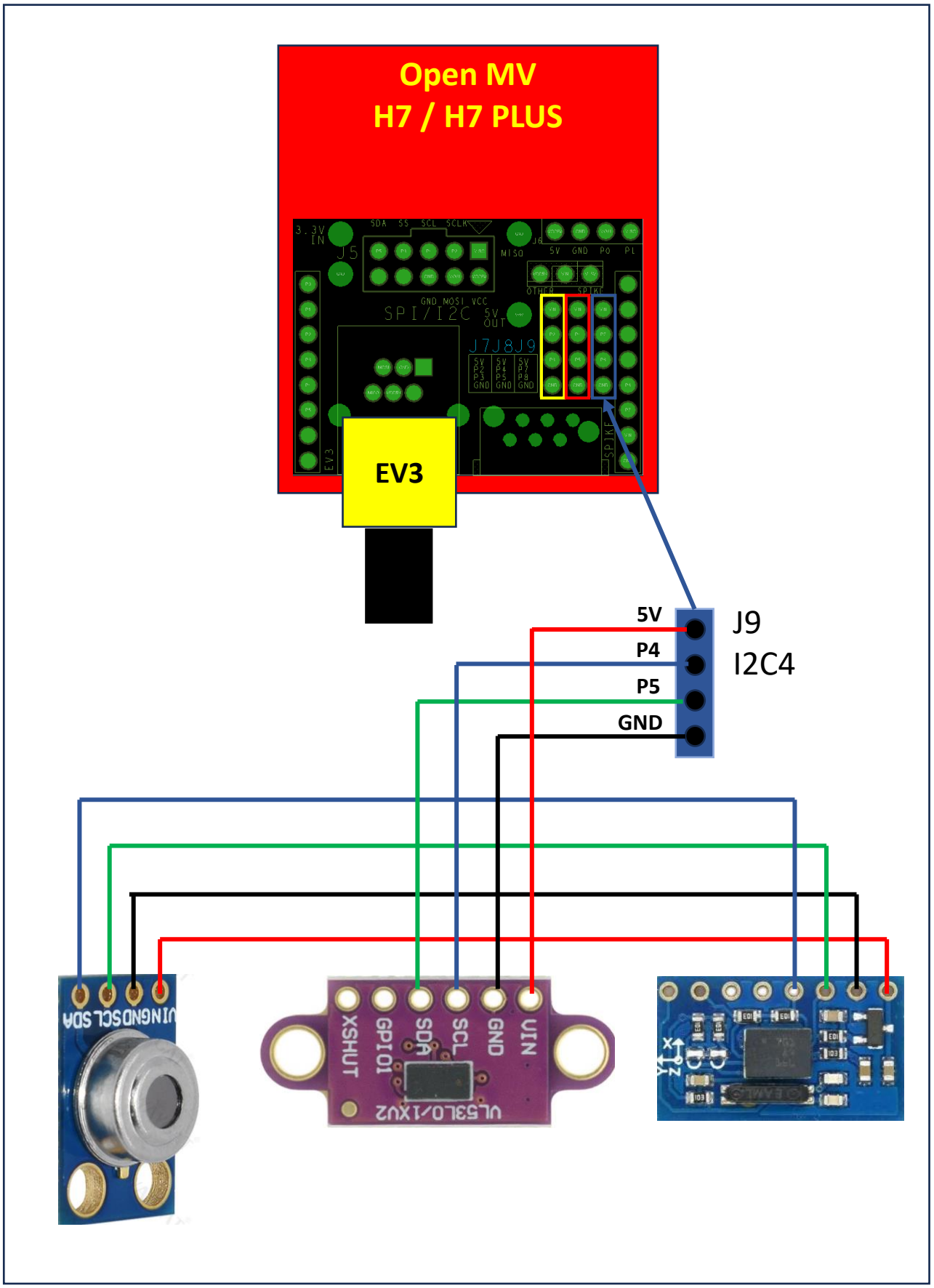
EXAMPLE (USE I2C)

EV3(or Spike Prime) + OpenMV Camera + VL53L0X



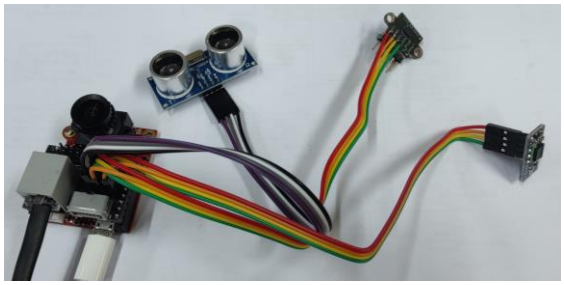
EXAMPLE (USE I2C)

I2C BUS (Multi-Device on same line)



EXAMPLE (UART WITH EV3)

EV3(or Spike Prime) + OpenMV Camera + Sensos



GPIO

J7

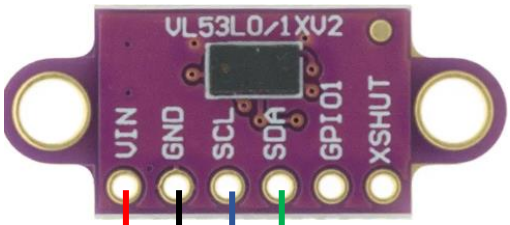
5V - Vcc

P2 - Trig

P3 - Echo

GND - Gnd

Open MV
H7 / H7 PLUS



I2C2

J8

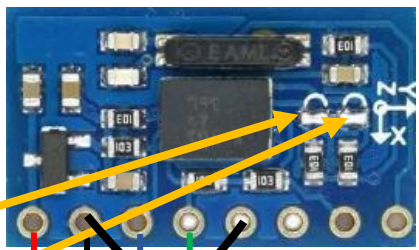
5V - Vcc

P4 - SCL

P5 - SDA

GND - Gnd

EV3



I2C4

J9

5V - Vcc

P7 - SCL

P8 - SDA

GND - Gnd

CONNECT
FOR I2C MODE

CONNECT
FOR I2C MODE

I2C Address
Close : 0x28
Open : 0x29

EXAMPLE (WITHOUT CAMERA)

UART (BNO055 IMU SENSOR WITH UART MODE)