

Avnet Visible Things PMOD Tutorial Summary
by Michael Li
03/09/2018

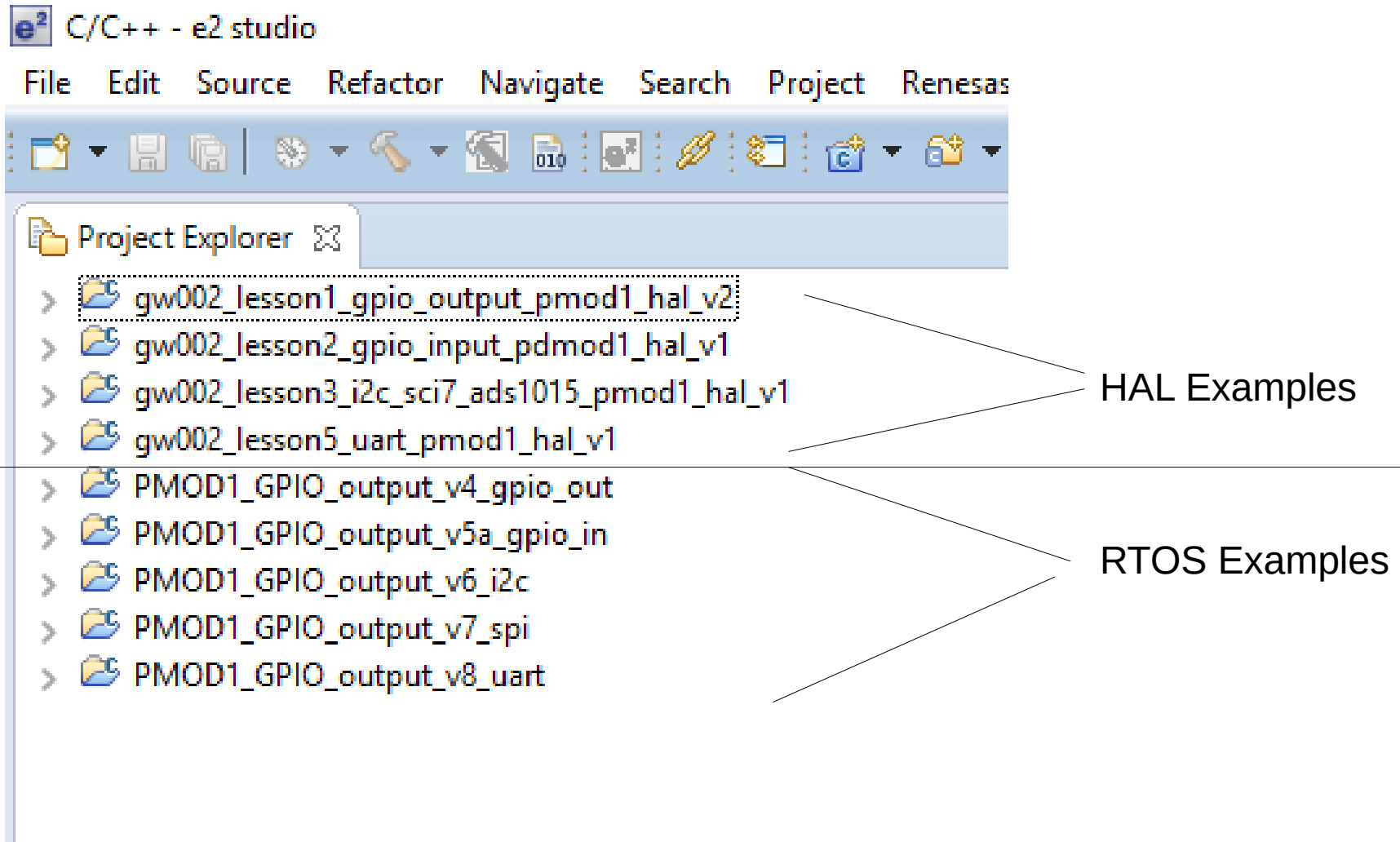
Avnet Visible Things PMOD Tutorial Summary (E2 Studio 5.3.1.002/SSP 1.2.0, gw002_rev1_3)

Example	PMOD		HAL (Simple Drivers)	RTOS (Frame work Drivers)
GPIO OUT Type1 (IO[8:1])	12 pins	8 IO	Y	Y
GPIO IN Type1 (IO[8:1])	12 pins	8 IO	Y	Y
I2C (SCL/SDA)	4 pins	2 IO	Y	Y
SPI Type 2 (SS/MISO/MOSI/SCK)	6 pins	4 IO	N (1)	Y
UART type 4 (TX/RX only)	3 pins (2)	2 IO	Y	Y

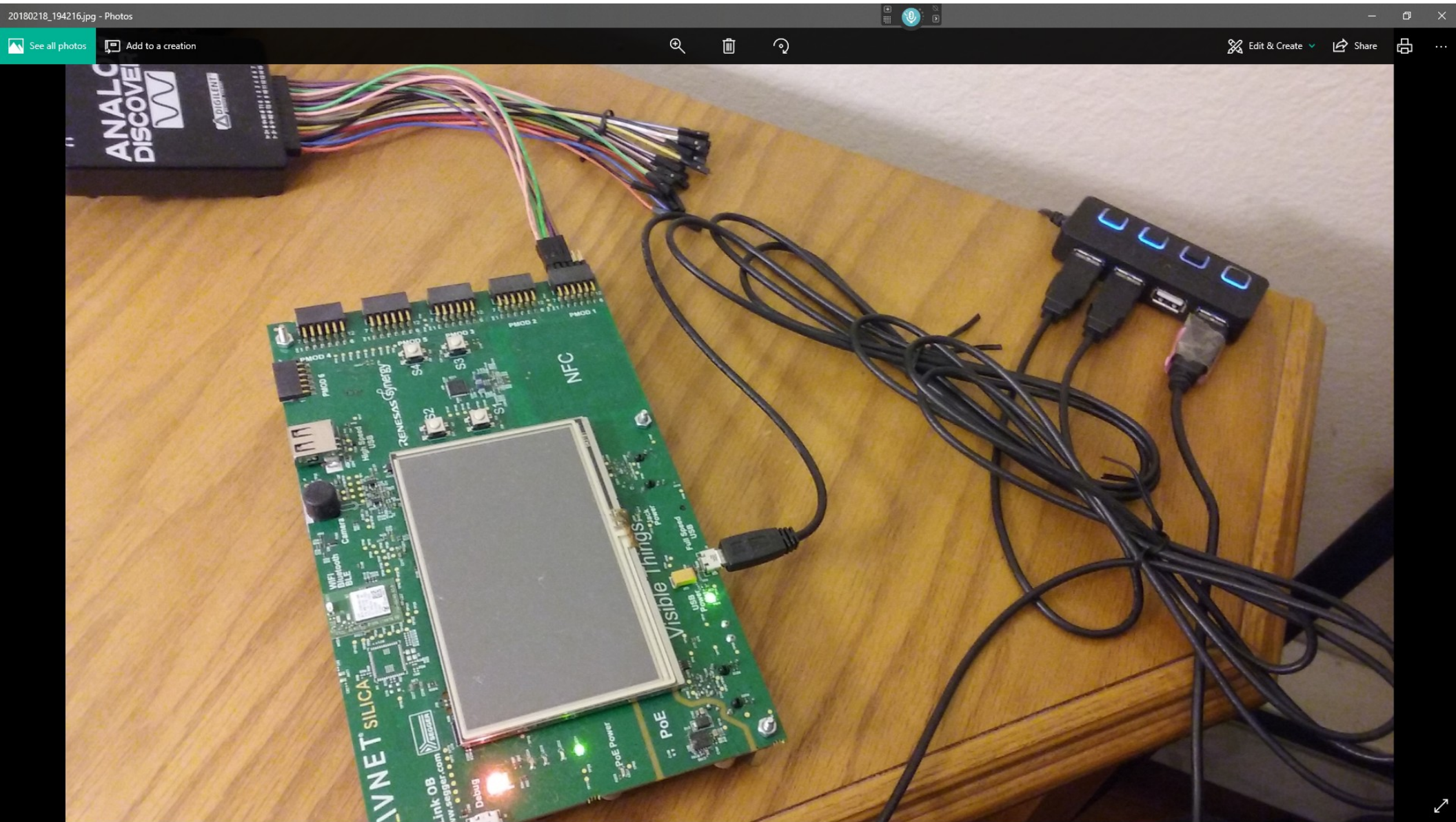
Note (1): The r_sci_spi driver does not support multi byte spi transactions.

Note (2): FTDI cable is not PMOD compatible. Just connect 3 wires.

Project Names



8 GPIO Output Bus Example



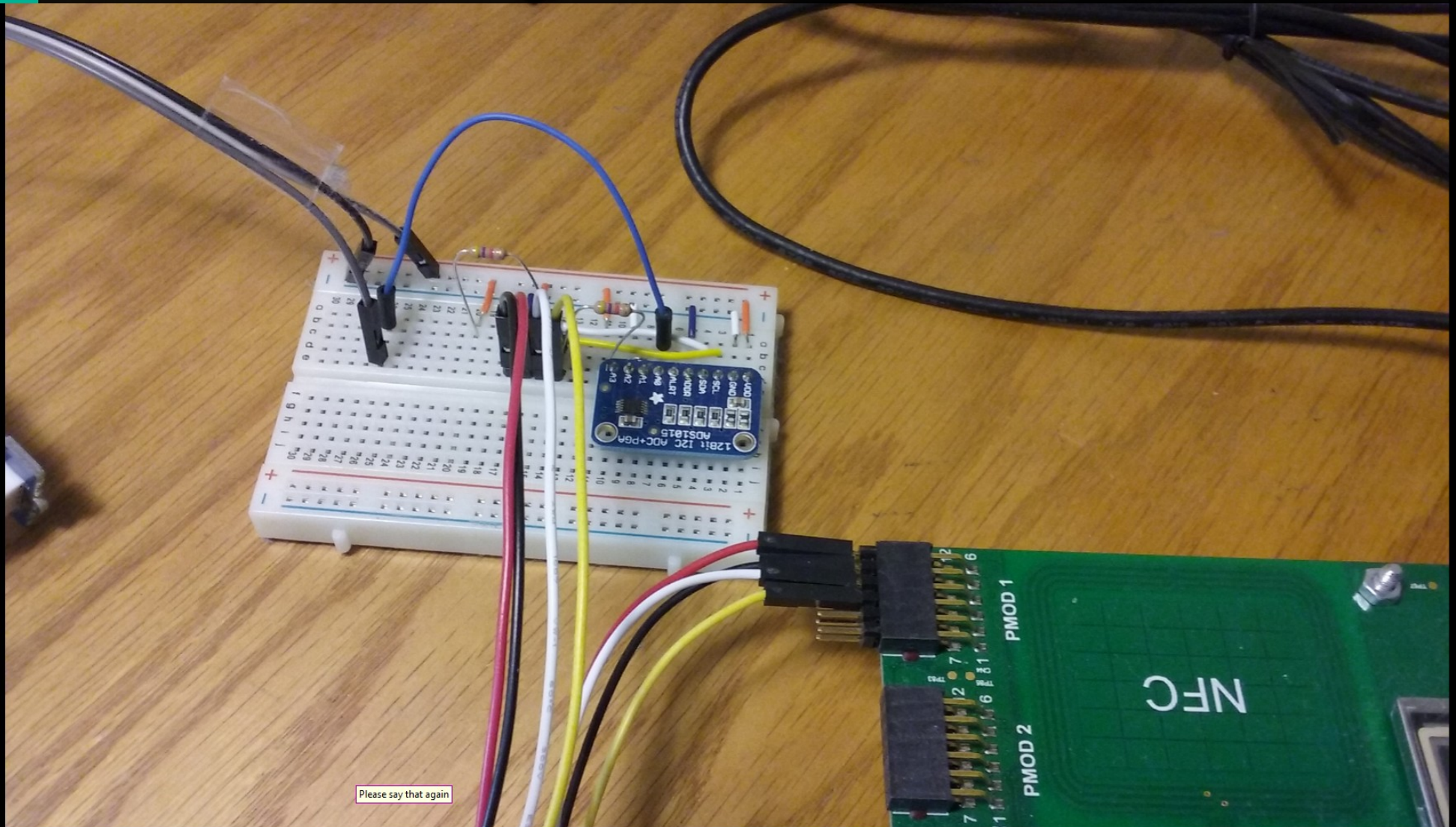
8 GPIO Input Bus Example



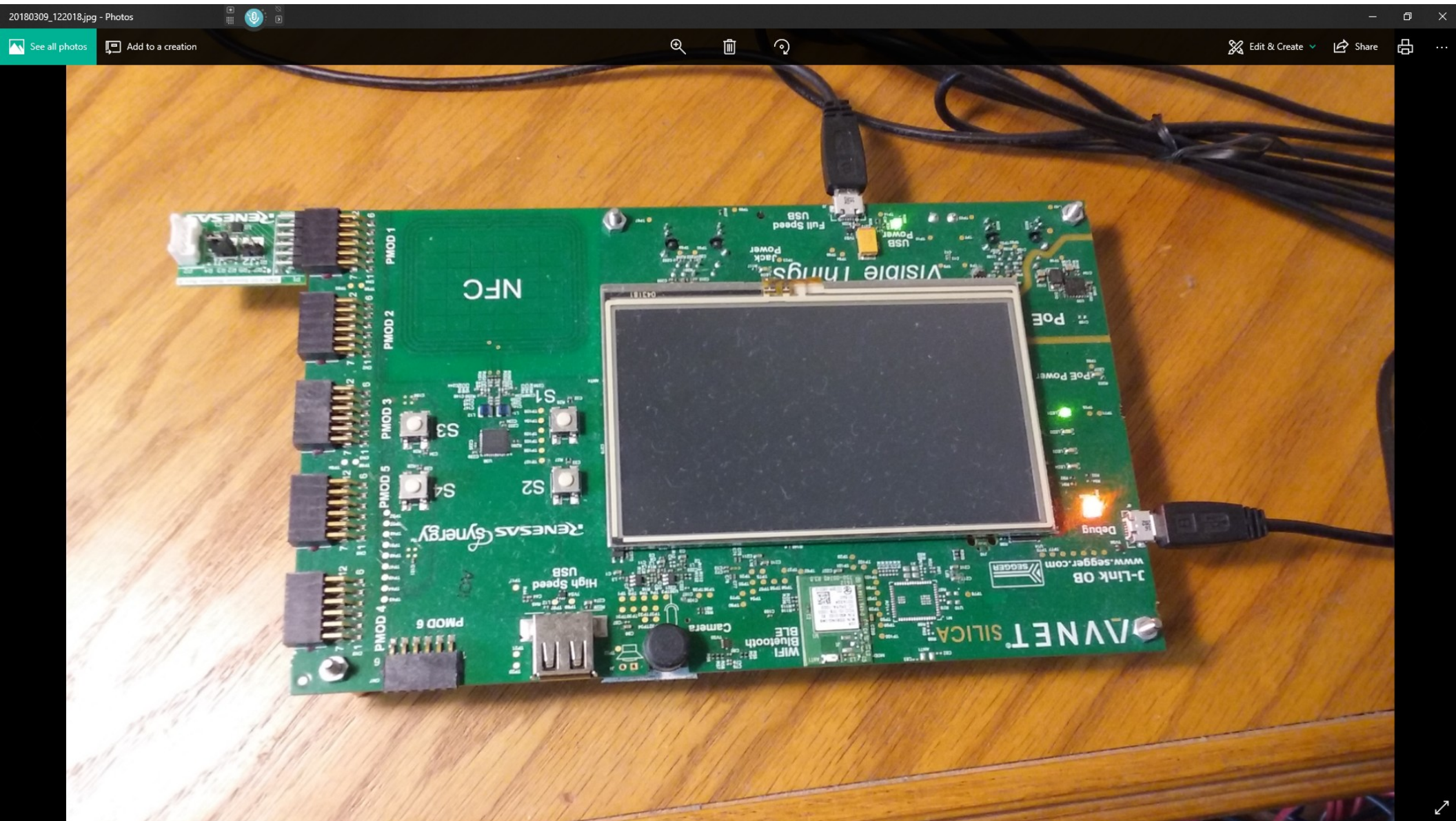
I2C Bus Example



ADC Module (TI ADS1015)



SPI Bus Example

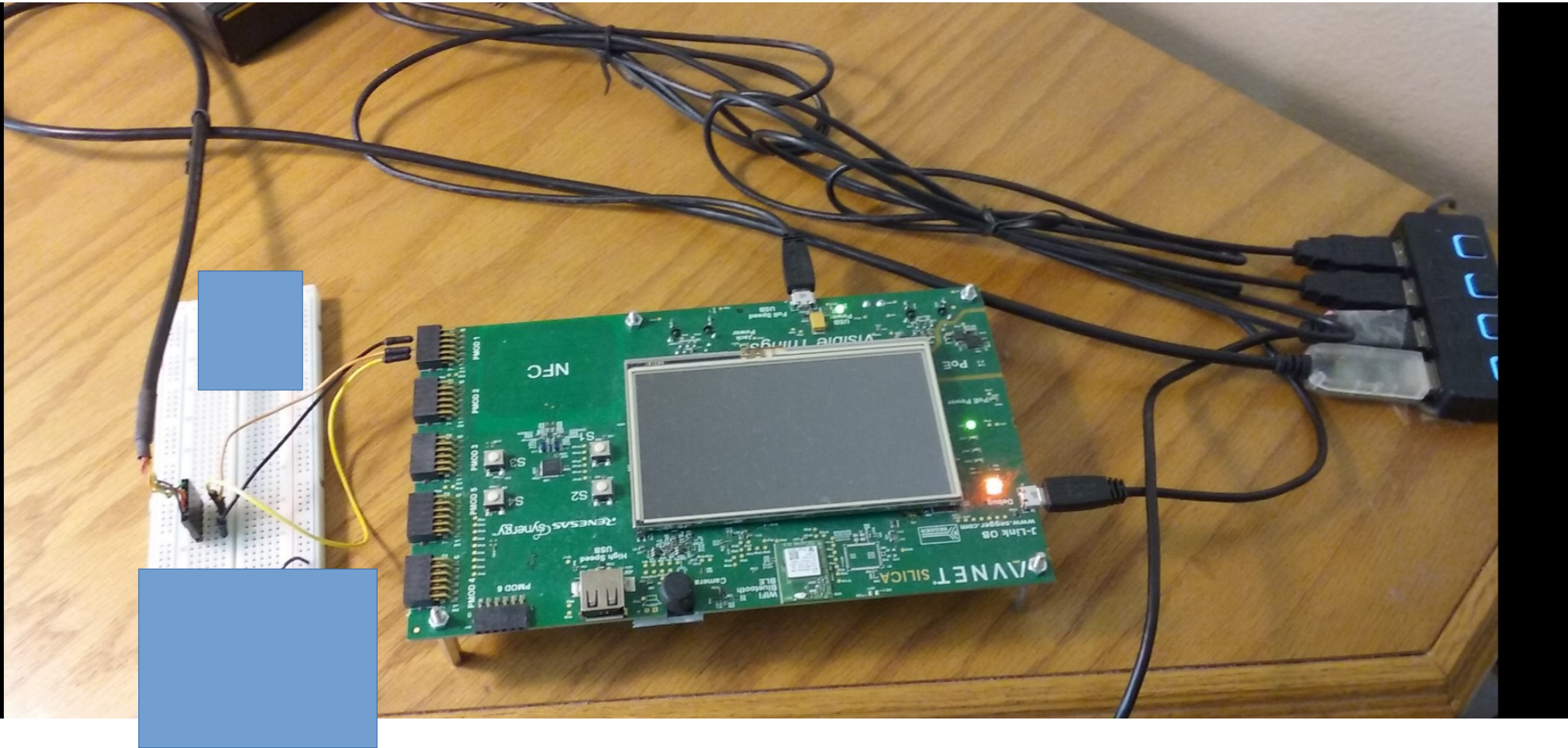


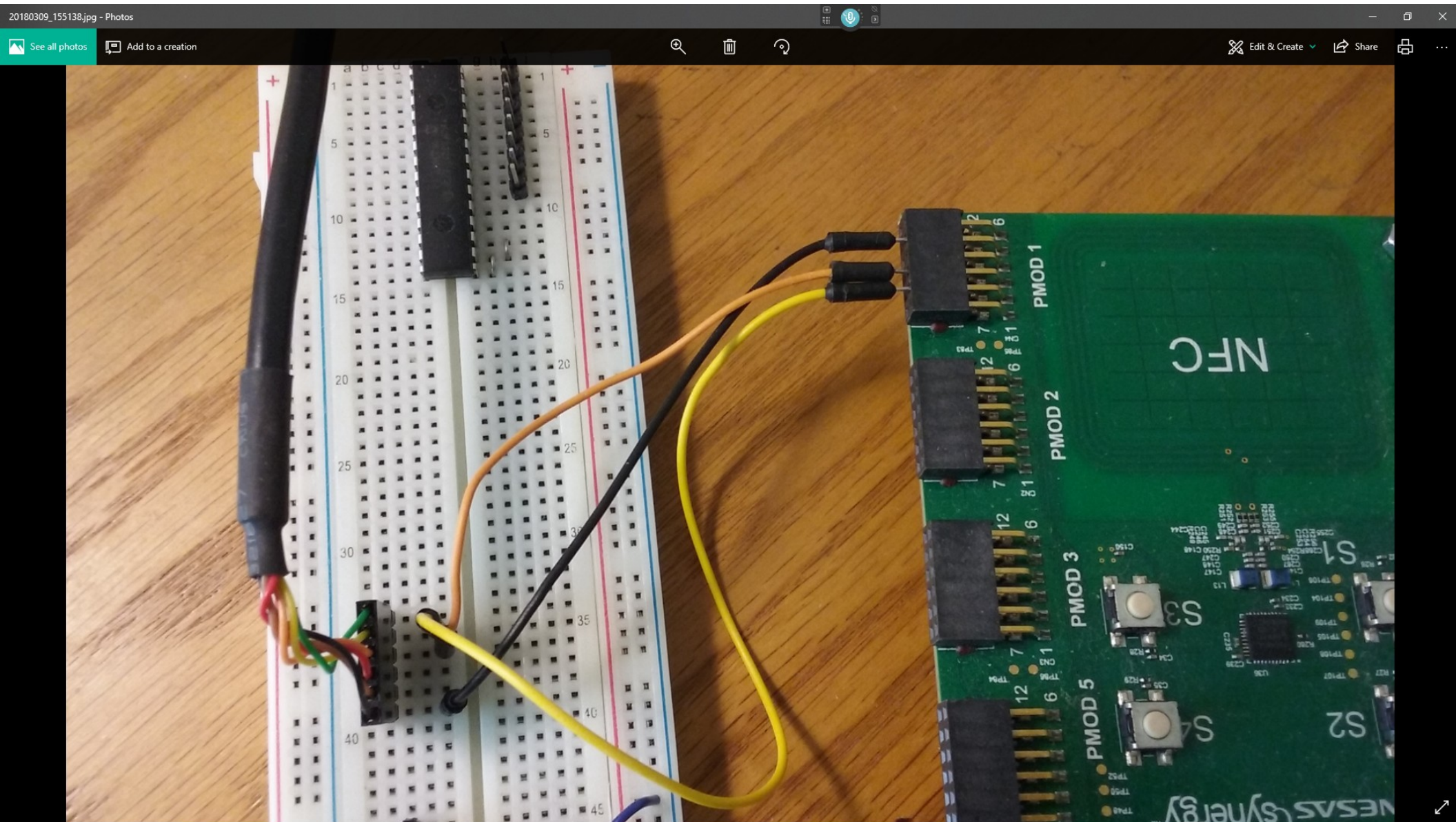
Simple UART Example

Black – GND

Yellow – pin 2 PA02 TXD (UART RXD)

Orange – pin 3 PA03 RXD (UART TXD)





UART Framework Ex by Michael C Li