

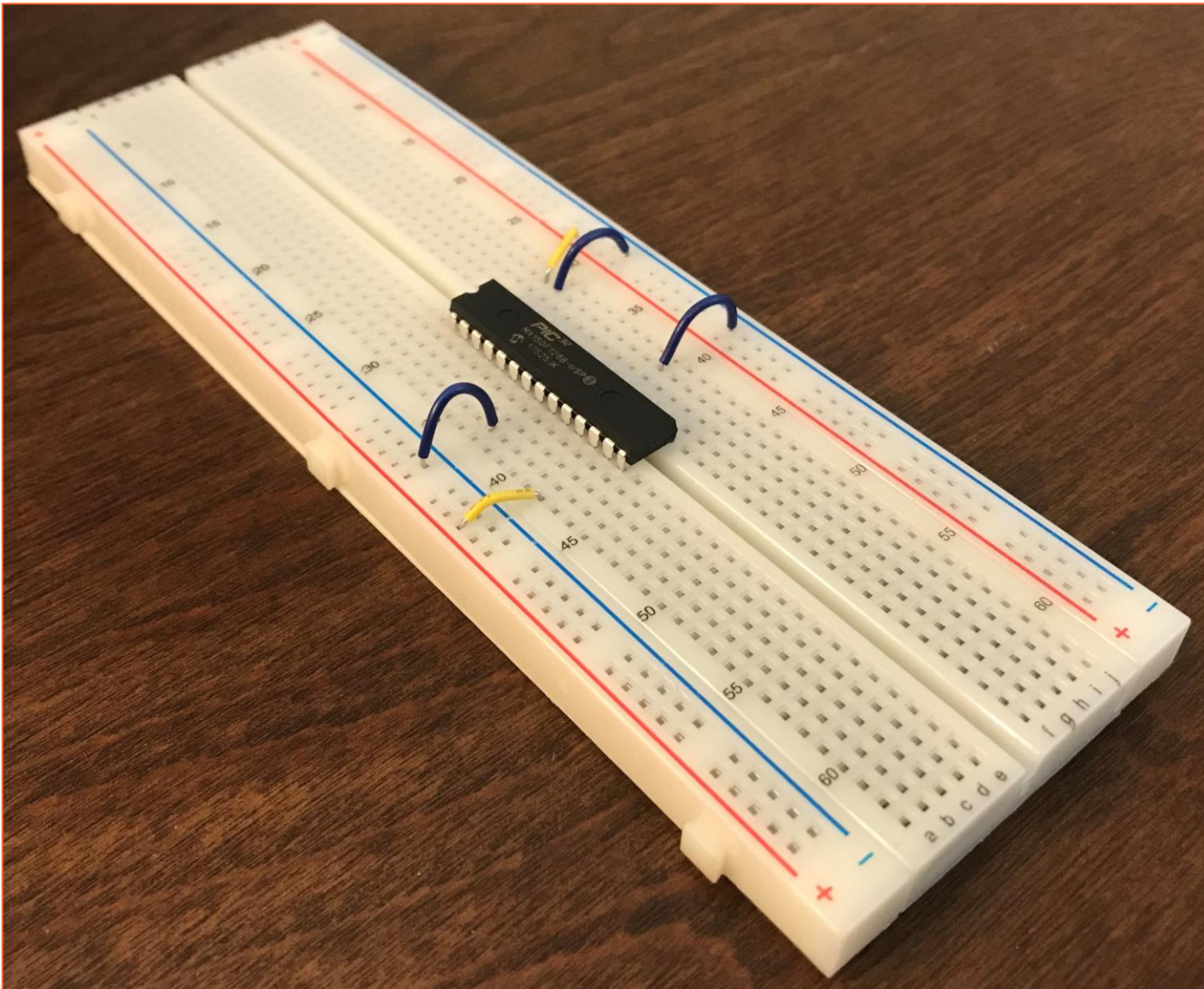
# Setup for Programming the PIC32

ECE 3720



MPLAB SNAP user's guide, pg. 11

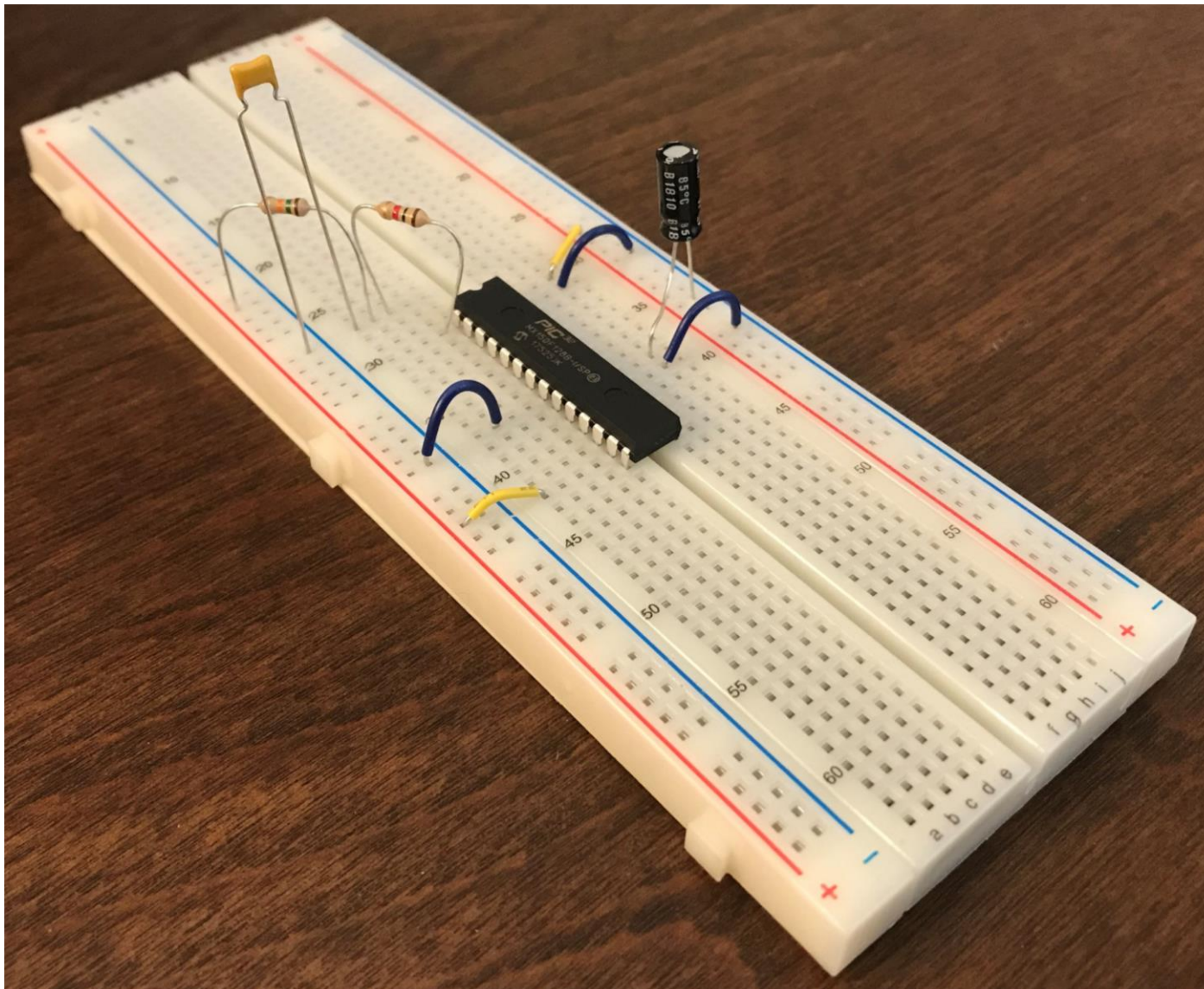
PIC32 datasheet, pg. 28



First, connect pins 13 and 28 of the PIC32 to the positive rails of the breadboard (shown with the yellow wires in this image) and pins 8, 19, and 27 to the ground rails (blue wires).

Note that pin 1 will always be at the top left when the semicircular notch is at the top of the chip.

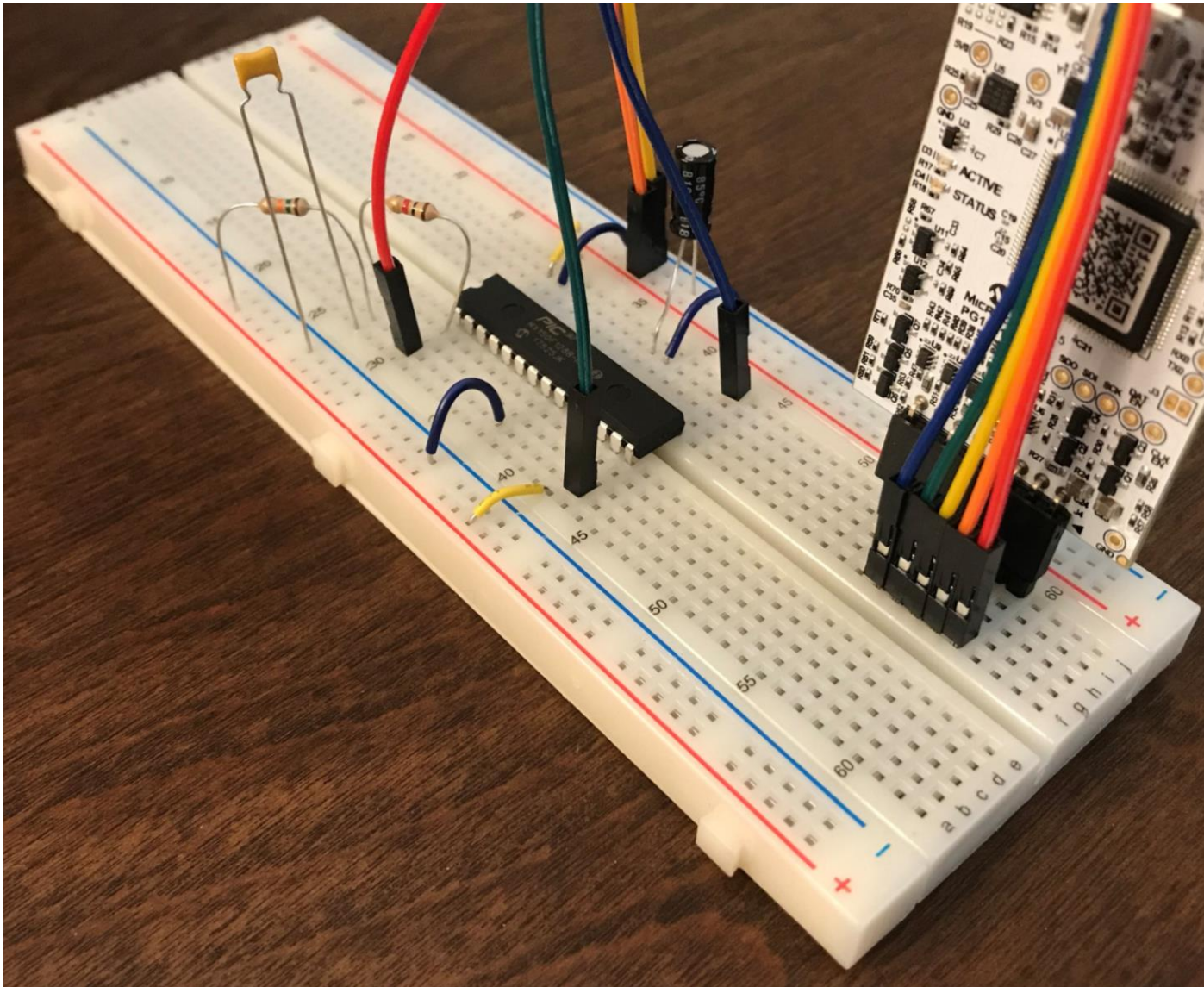




Connect a 15 k $\Omega$  resistor and 1 k $\Omega$  resistor in series between pin 1 and the positive rail, with the 1 k $\Omega$  resistor closer to the PIC32.

One lead of the 100 nF capacitor (the small, yellow one) should connect to the node between the resistors, while the other goes to ground.

The positive (longer) lead of the 10  $\mu$ F capacitor (black, cylindrical one) should connect to pin 20, while the negative lead goes to ground.



SNAP pin 1 (red wire) → PIC32 pin 1

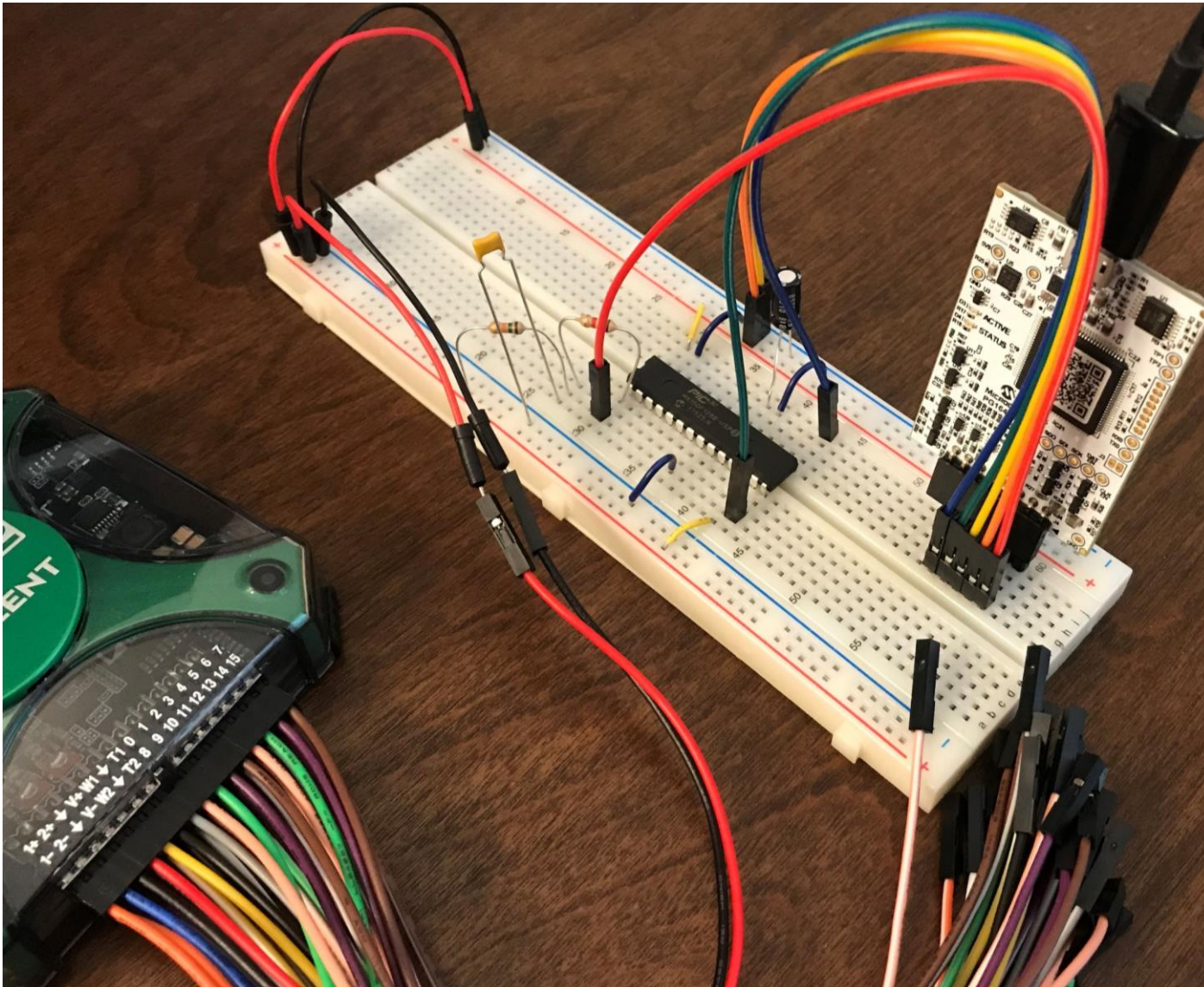
SNAP pin 2 (orange) → 3.3V source

SNAP pin 3 (yellow) → ground

SNAP pin 4 (green) → PIC32 pin 14

SNAP pin 5 (blue) → PIC32 pin 15





Connect the positive rails and ground rails of the breadboard to the V+ and ↓ pins of the AD2 respectively. Make sure to connect the rails on either side of the breadboard.

This completes the setup of the PIC32 for programming.