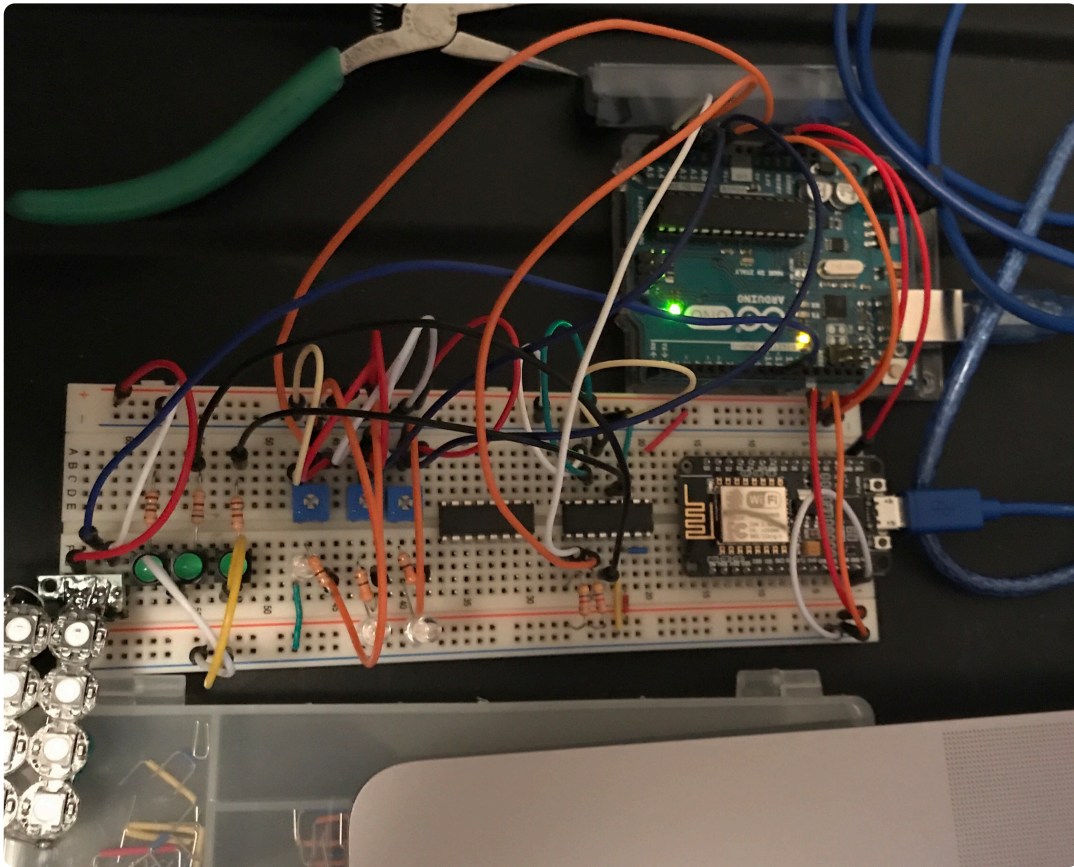Arduino File: digipot_tb.ino

BOM:

1 × Arduino Uno w/cable

1 × Node MCU   w/cable

3 × 330R Ω Resistors

2 × 150R Ω Resistors

3 × blue LEDs

2 × Green LEDs

3 × 100K Ω trim pots

1 × DS1803-100

2 × 4.7K Ω Resistors

Arduino
Uno

3.3 V → 3.3V
5 V → 5V
Gnd → 0V
A0 → W0
A1 → W1
A3 → W2
A4 → SDA
A5 → SCL
D10 → LED_data

Node
MCU

3.3V → 3.3V
GND →
SDA
SCL

5V

4.7K   4.7K
SDA
SCL

100K → W0   100K → W2
W1
100K

A81803

H1   VCC
X   X
L1   HO
W1 ← L1   LO
A2   W0 → W0D
A1   X
A0   SDA → SDA
GND SCL → SCL2

W1D →

330R   330R   330R

W0D   W1D

15OR   15OR