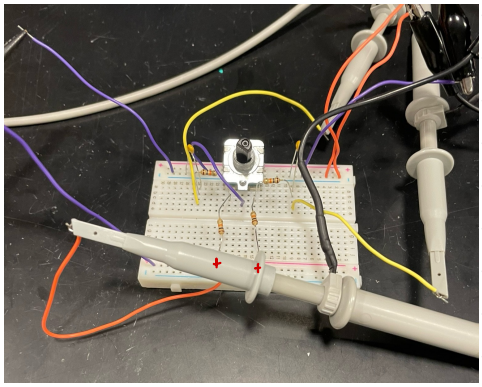
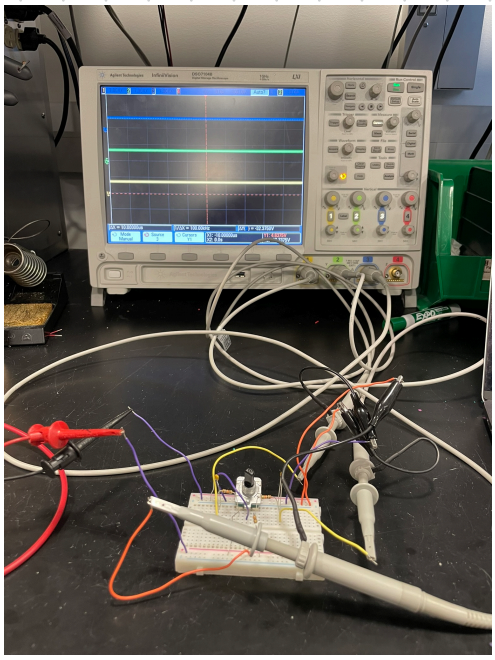
03/08/2025

Rotary encoder functionality test



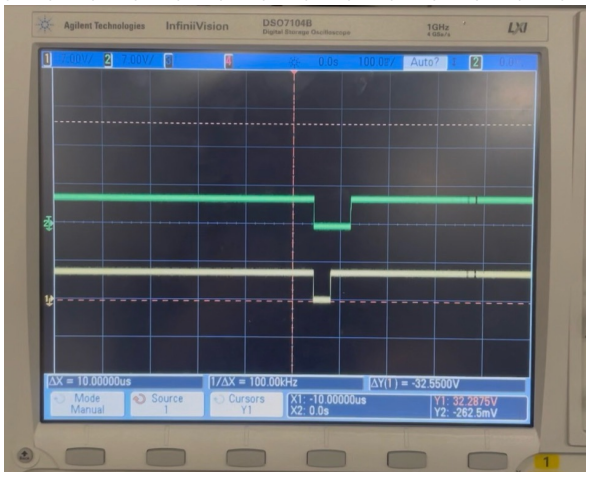
resistors: 10 kΩ
capacitors: 0.01 μF
supply voltage: +5 V DC



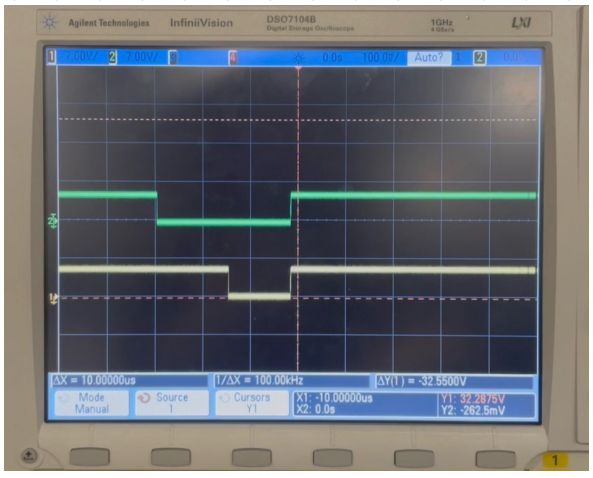
channel 1 : RotA

channel 2 : Rot B

channel 3: supply voltage



clockwise rotation



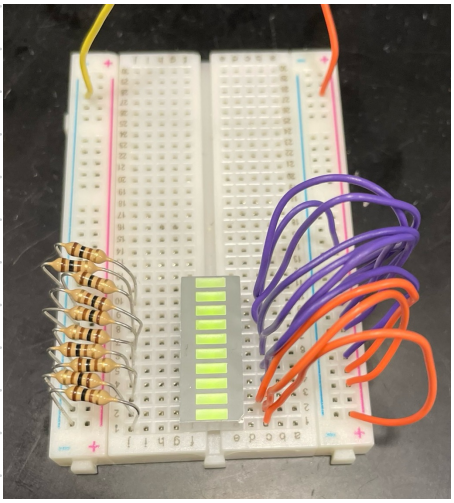
counterclockwise rotation

Rotary encoder code

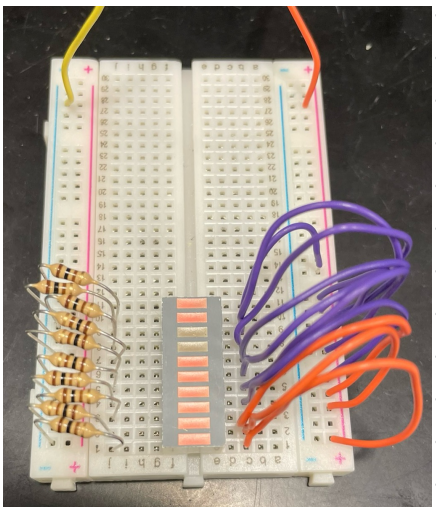
set interrupt on RotB GPIO
- if A = 0 + B = 0, clockwise
- if A = 1 + B = 0, counterclockwise
- if A = 1 + B = 1, no change

LEDs functionality test

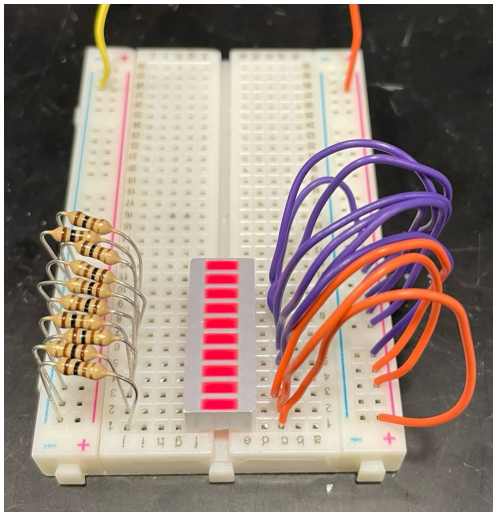
resistors: 100Ω
voltage supply: 2.6V DC



✓ green LEDs functional
LTA-1000G

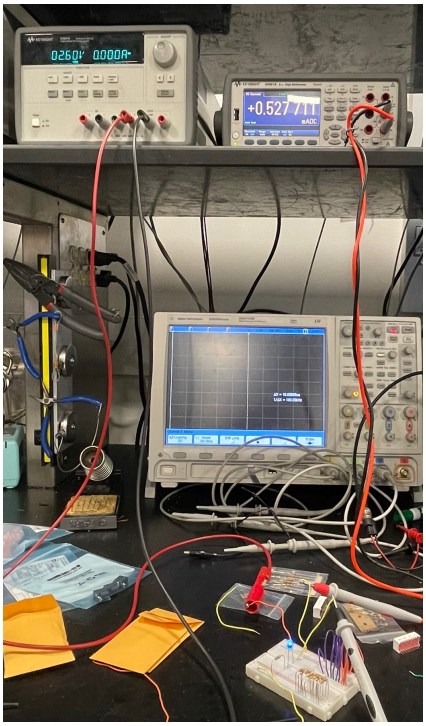


✗ DC10EWA not functional
two LEDs not working



✓ red LEDs functional

★need yellow array of LEDs to be ordered



blue LED lit at 2.6V + 0.528 mA
this is approximately the GPIO output voltage