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#include <Stepper.h>
#include <Adafruit_NeoPixel.h>

#define PIN 7 // LED ring controll pin
#define NUMPIXELS 8 // Number of leds in LED ring

int focusChange = 300; // how far the stepper motor moves
int numberOfPhotos = 100; // target number of photos in stack
int exposureTime = 3000; // wait time for camera to make photo
int focusChangeWait = 1500; // wait time for motor to move to new position
int motorSpeed = 8; // motor rotation speed
int counter = 0;

Adafruit_NeoPixel pixels(NUMPIXELS, PIN, NEO_GRB + NEO_KHZ800);
Stepper myStepper(2038, 2, 3, 4, 5); // init stepper motor
int triggerCableControl = 12; // pin connected to relay module and trigger cable

void setup() {
  myStepper.setSpeed(motorSpeed);

  pixels.begin();
  pixels.clear();
  for(int i=0; i<NUMPIXELS; i++) {
    pixels.setPixelColor(i, pixels.Color(241, 218, 164));
    pixels.setBrightness(255);
    pixels.show(); // Send the updated pixel colors to the hardware.
  }

  pinMode(triggerCableControl, OUTPUT);
  Serial.begin(9600);
}

void loop() {

  if(counter<=numberOfPhotos){
    Serial.println("-----");
    Serial.println(String("Making photo: ") + counter + String(" of ") + numberOfPhotos);
    myStepper.step(focusChange);
    delay(500);
    digitalWrite(triggerCableControl, HIGH);
    Serial.println("Triggering photo...");
    delay(500);
    digitalWrite(triggerCableControl, LOW);
    Serial.println("Done");
    delay(exposureTime);
    counter++;
  }
}

```