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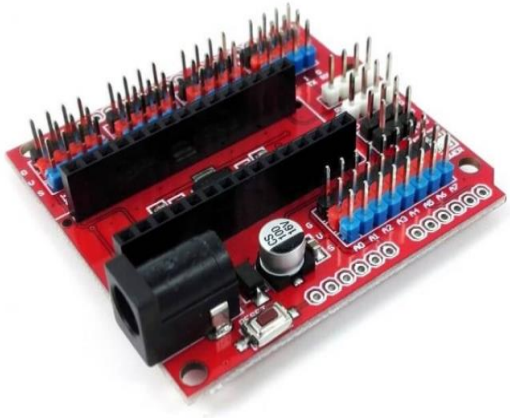
NANO Shield for Arduino NANO



Introduction:

This shield is specially designed to expand Arduino Nano I/O, simplifying the connection or wiring needed to interface with external sensor or actuator. The I/O pins of Arduino Nano are expanded out into 3-way header pin with SVG (Signal, Voltage, and Ground) configuration, similar to RC servo and RC receiver. In addition, many sensor and actuator come in this form of wiring.

Features:

- Designed for Arduino Nano, compatible with:
  - -Arduino Nano (Original)
  - -Arduino Nano CH340 (Compatible)
- Expanded all 22 GPIO pins to SVG 3-way(RC servo type) header pin, including:
  - -8 Analog Pins (Arduino NANO have 2 additional Analog input pin)
  - -14 Digital IO pins (include 6 PWMs)
  - -AREF pin too
- I2C expansion Pin (4-way header: SCL, SCK, 5V and GND)
- UART expansion pin (4-way header: RX, TX, 5V and GND)
- More 5V and GND pins for sensor / Servo
- Additional pads for Arduino UNO form factor.
- On board additional 3.3V voltage regulator to supply more 3.3V current.
- DC Adapter Barrel Jack input with reverse polarity protection
- Additional Reset button
- Power indicator LED

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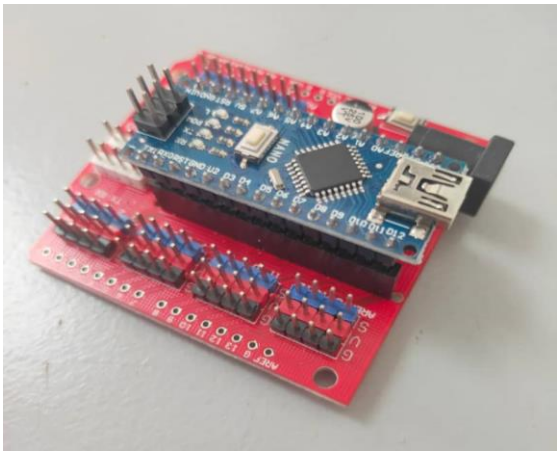
Components needed:

- NANO Shield For Arduino Nano
- Arduino Nano + Mini USB Cable
- Breadboard
- LED
- Jumper Wires

Procedure:

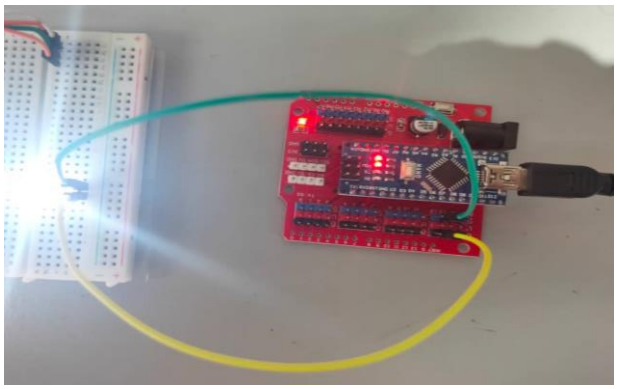
1. Put the Arduino Nano on the Nano Shield as shown below.



2. Connect the wires like the picture and diagram below.

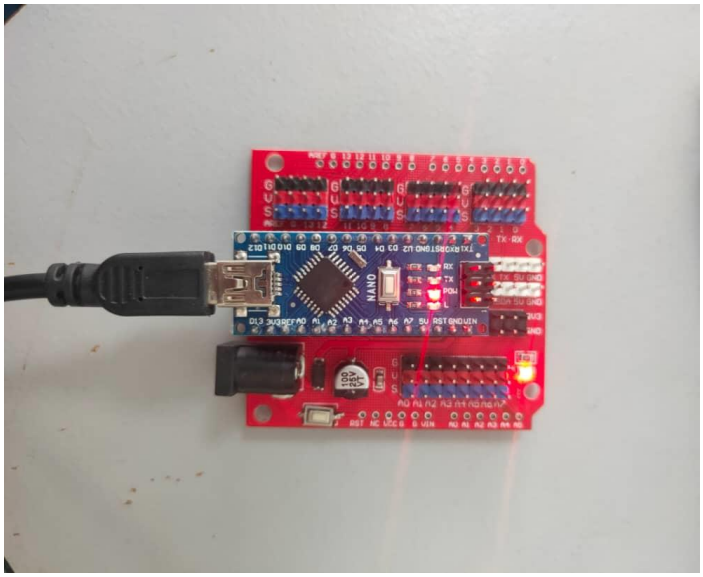
Arduino NANO Shield	LED
Pin 13 (Signal)	+
Pin 13 (Ground)	—

Diagram



Picture

3. Connect USB wire to Arduino Nano. The LED on the Arduino Nano and the Nano Shield will glow like the picture below.



4. Enter the code into the NANO Arduino.

```
void setup() {
  // put your setup code here, to run once:
pinMode (13, OUTPUT);
}

void loop() {
  // put your main code here, to run repeatedly:
digitalWrite(13, HIGH);
delay(500);
digitalWrite(13, LOW);
delay(500);
}
```