

Arduino Nano Bar-Graph with universal op-amp shield consist 10 LED, and single low voltage general purpose LMV321 op amp including few capacitors and resistors connected to op-amp pins, the op-amp proto area can be configured without any modifications to the board, all that is necessary is to select the correct resistors and capacitors. The other optional components can be left open or shorted depending on the configuration desired. All 10 LED with current limit series resistor connected to digital pins D2 to D11 of Arduino Nano, Nano analog pin A0 used as input, the input can be used directly as voltage input to measure the voltage and display on Bar-graph.

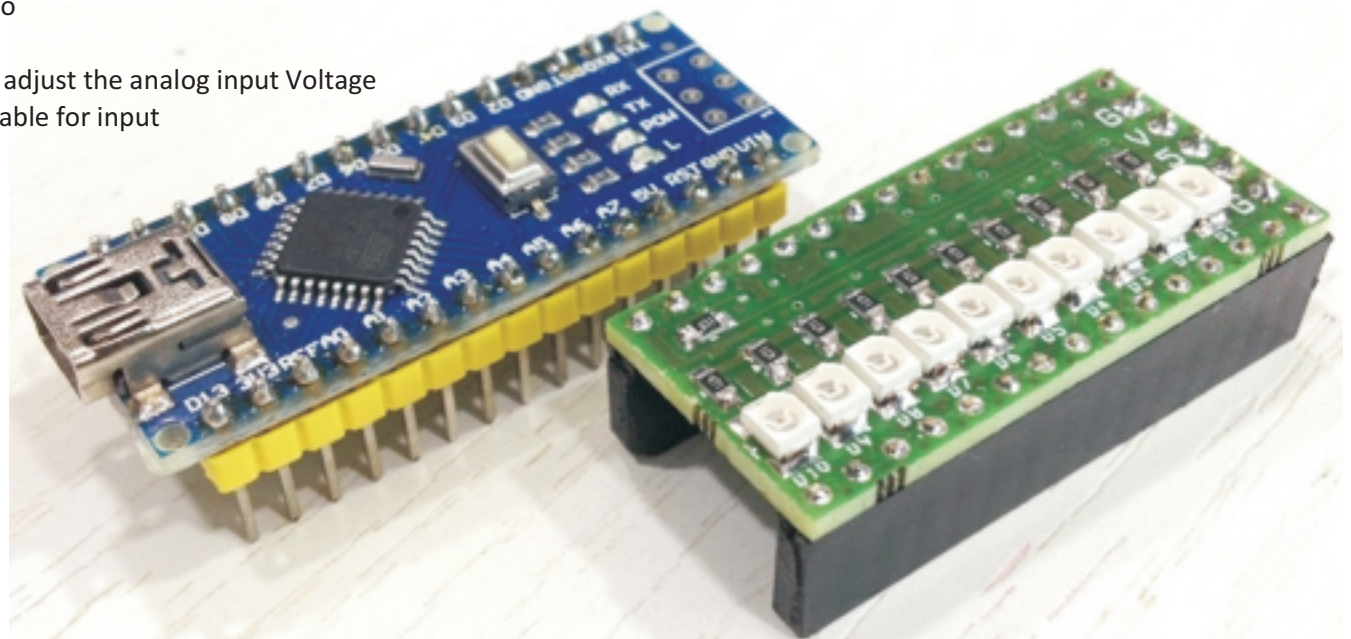
0 To 5V Bar-graph volt meter with 0.5V step is simplest project possible with the shield, many other sensor based application possible using op-amp as signal conditioning amplifier.

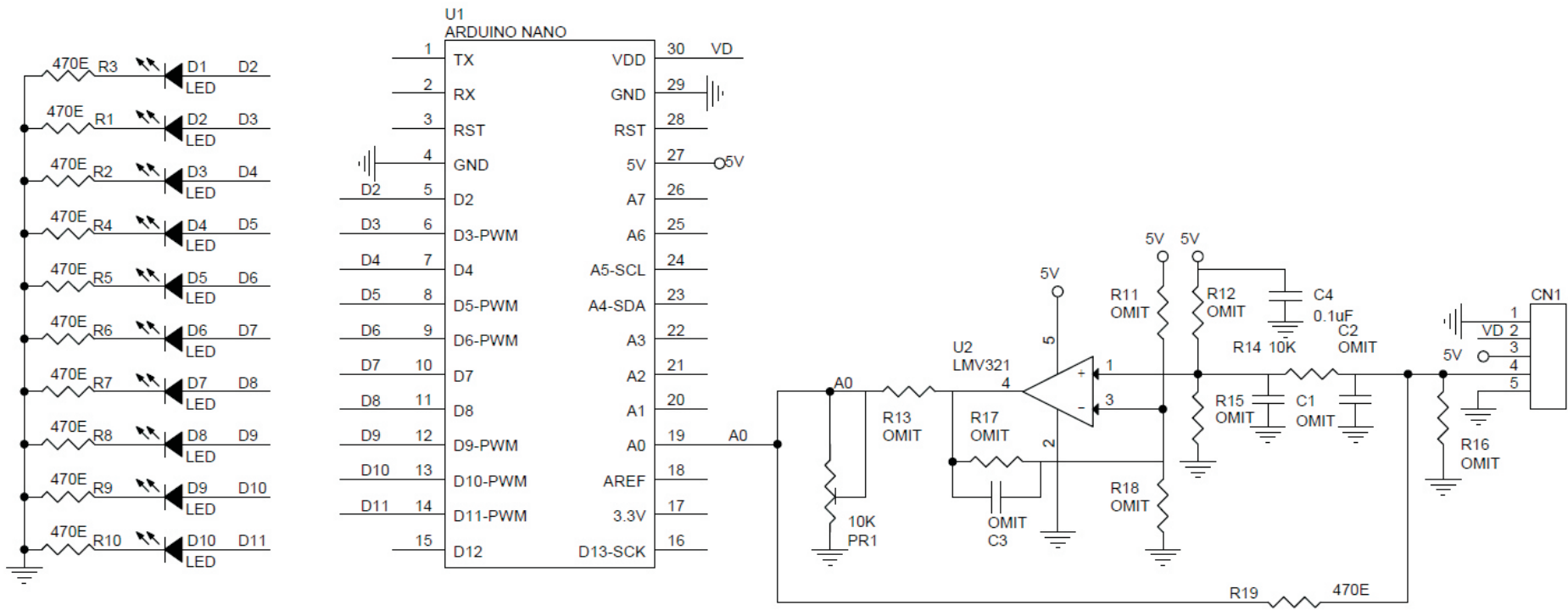
Code for Simple Bar-Graph Voltmeter with 0-5V range is available here,

<https://www.arduino.cc/en/Tutorial/BarGraph>

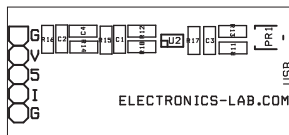
Features

- Supply 5V DC
- 10 LED Connected to D2-D11 pins of Nano
- Universal Op-Amp proto available
- Trimmer Potentiometer provided to fine adjust the analog input Voltage
- A0 Analog pin with series resistor is available for input

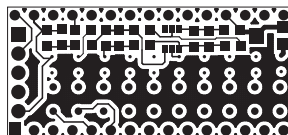




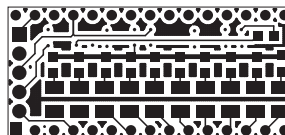
BOM			
SR.	QNTY.	REF.	DESC.
1	1	CN1	5 PIN HEADER CONNECTOR
2	11	C1,C2,C3,R11,R12,R13,R15,R16,R17,R18,R14	CHOOSE AS PER APPLICATION
3	1	C4	0.1uF SMD 0805
4	10	D1,D2,D3,D4,D5,D6,D7,D8,D9,D10	LED SMD 1210
5	2	PR1	10K 3MM TRIMMER POT
6	11	R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R19	470E SMD 0805
7	1	U1	ARDUINO NANO
8	1	U2	LMV321 SOT23-5



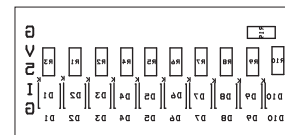
SILK SCREEN TOP



TOP



BOTTOM



SILK SCREEN BOTTOM

