Developer Guide

My project is about the stereo VU meter. It is meant to take in a stereo audio signal and then display the signal strength for each channel. The VU meter has two independent inputs, one for the Right (R) and another one for the Left (L) audio channel. This is sent to the Arduino which already has its code and due to pins being assigned each input has its corresponding LED output with colors (1 white, 2 yellow, 1 red) to show the level. The main challenges that were faced were mainly due to safety and live wires out. To improve this project, you will need to attach a speaker because the project works only without a speaker.

Program connections

Audio jack is connected the following way:

      jack 1 ground pin is to GND

      jack 1 left channel pin is Analog pin 4 on the board

      jack 1 right channel pin is Analog pin 5 on the board

LEDs are connected in the following way:

      Every LED cathode is connected with 150 ohms resistors then to ground.

      Every LED anode is connected with Arduino with their assigned pin

Left Channel LEDs:

      1st LED anode is connected with pin 0

      2nd LED anode is connected with pin 1

      3rd LED anode is connected with pin 2

      4th LED anode is connected with pin 3

      5th LED anode is connected with pin 4

Right Channel LEDs:

      1st LED anode is connected with pin 6

      2nd LED anode is connected with pin 7

      3rd LED anode is connected with pin 8

      4th LED anode is connected with pin 9

      5th LED anode is connected with pin 10