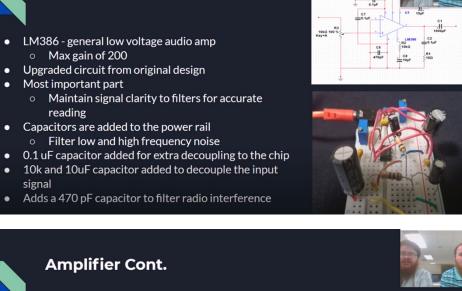
Audio Spectrum Analyzer

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Introduction Our Project: Audio Spectrum Analyzer ("Visualizer") Measures the magnitude of an input audio Ours is electrical, some use acoustic pressure or even optical

Use in industry by audio engineers to measure their work Shows volume level of frequency bands, allows for visual feedback Ours is a simplified version Educational and entertainment

LED Display 8 x 8 LED matrix with colors representing USB ## R12 magnitude of signal U1C ## R13 Transistor circuit boosts signal a bit more to drive LEDs LM324N chip used Quad Op-Amp package Popular general use chip, useful for our project Voltage divider circuit o Bottom green LEDs require less voltage to turn on compared to top red



Amplifier



