Project Checklist
PA System in a Box
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A) Commitment:
   a) Amplification of low-level signal (microphone) to line level
   b) A mixer to sum and distribute the signals to effects and outputs
   c) Amplification of summed mixer output to mono speaker
   d) Power supply using linear rectification for +15V and -15V

B) Main goals:
   a) A fully functional PA system.
   b) Comprehensive Input Channels
      i) 3 input channels (to allow stereo line in and mic)
      ii) Lowpass and highpass filtering
      iii) Single-band Parametric EQ
   c) System bandwidth of 20 Hz - 20 kHz, inputs to outputs.
   d) A fully functional class G amplifier.
   e) Mixer has switchable sends for outboard effects
   f) Power supply buck down converter from +/- 30 V to +/- 15 V.

C) Stretch goals:
   a) More sound effects.
      i) Compressor; Limit the signals at a consistent dynamic level.
      ii) Graphic Equalizer; Allow boost and cut of multiple frequencies at output.
   b) Class A or AB Headphone Amplifier on mixer output
   c) Create an enclosure for all the modules
      i) LED visualization of sound output
         (1) All controls accessible on front panel