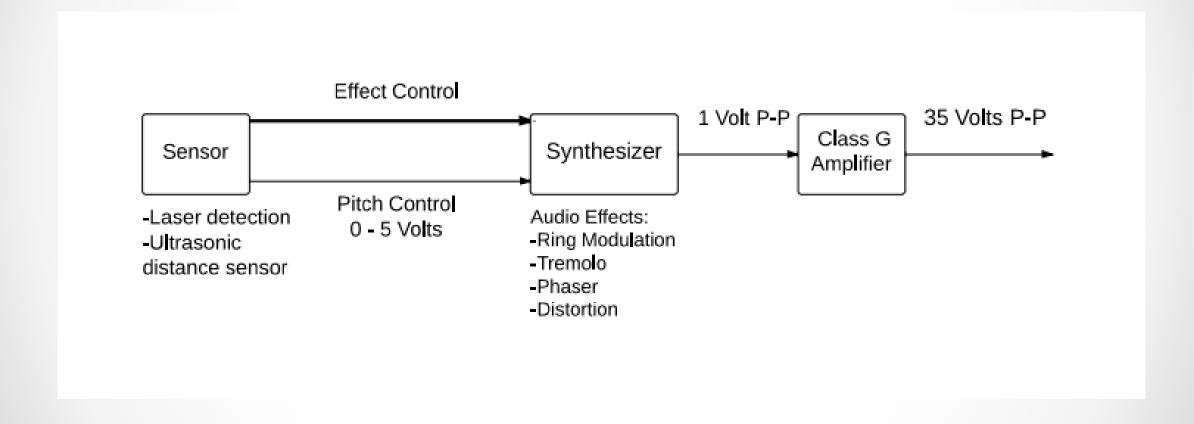
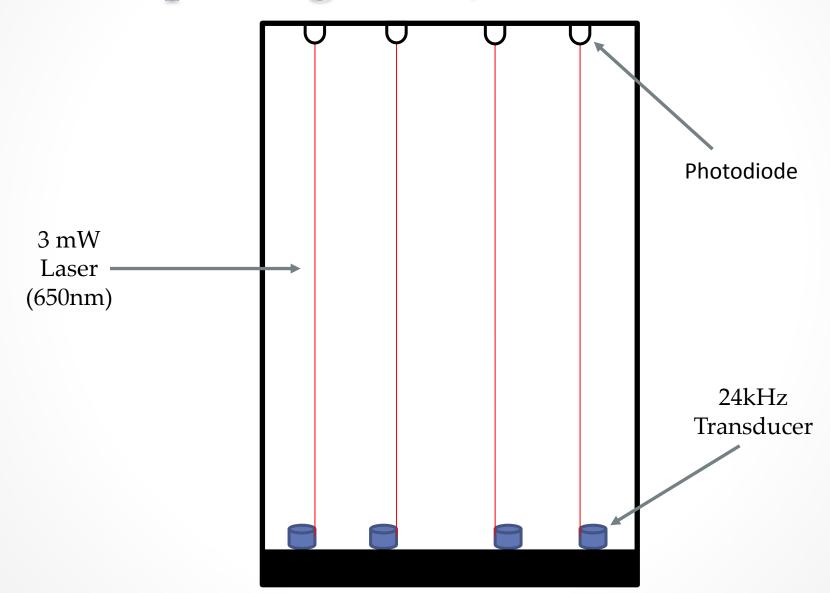
Laser Harp

JORDAN ADDISON MATTHEW OKABUE CHAD UYEHARA

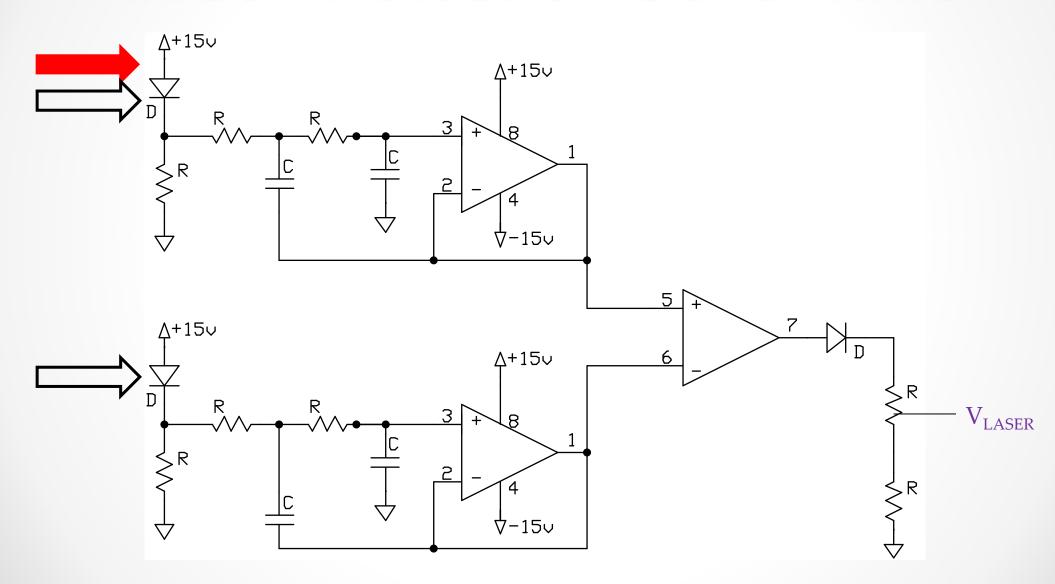
Block Diagram



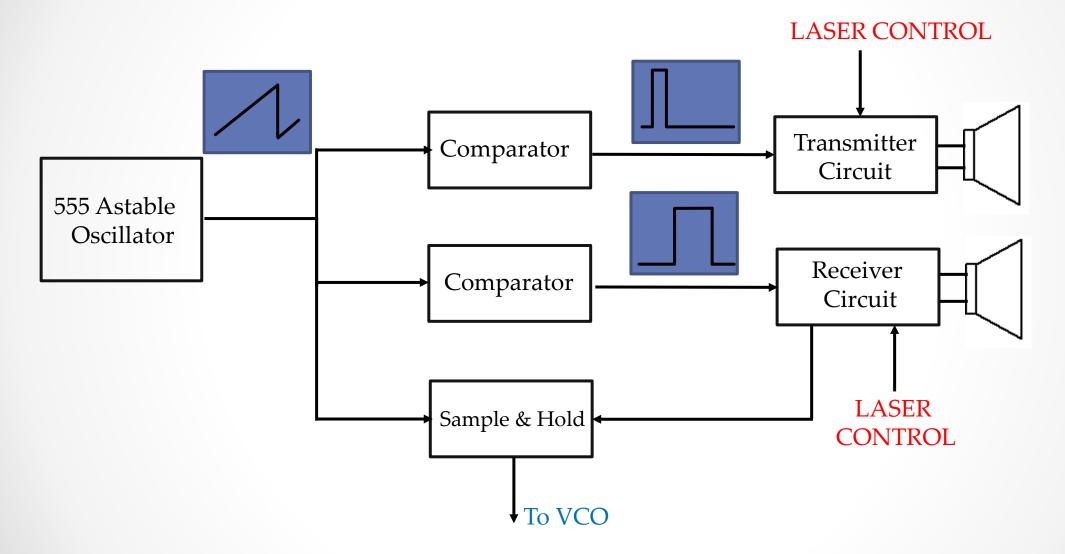
Laser Harp Diagram (Artistic Rendition)



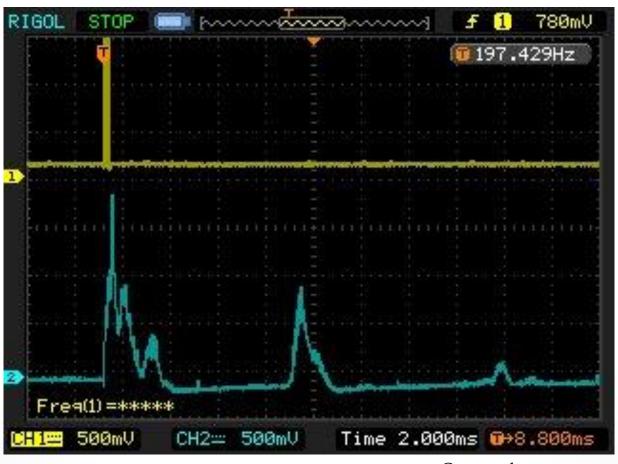
Laser Detection Schematic



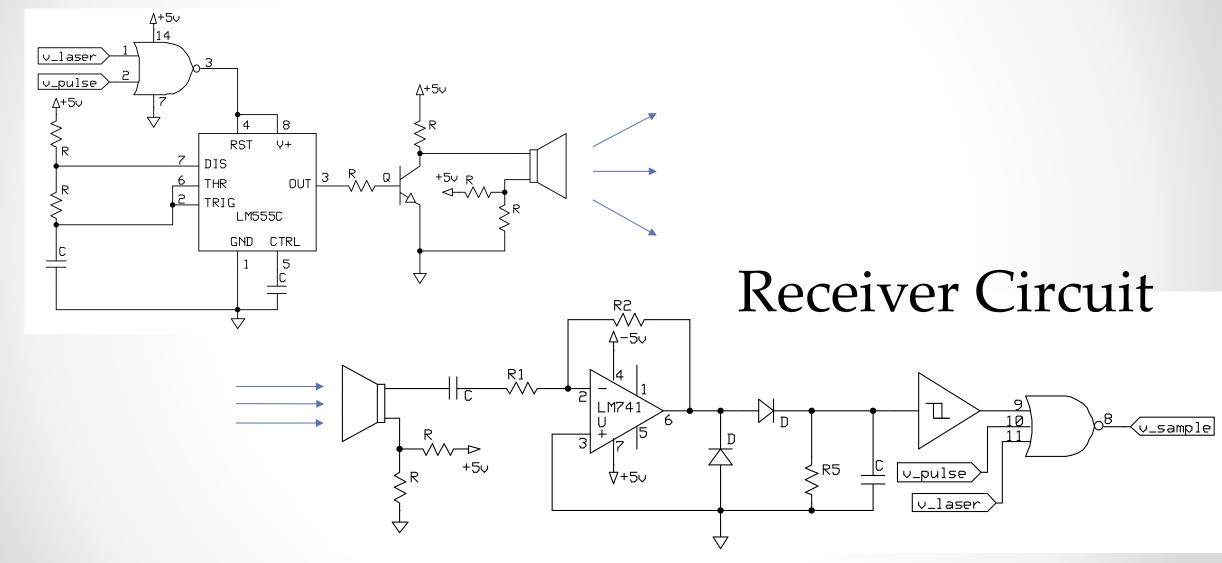
Range Finder Block Diagram



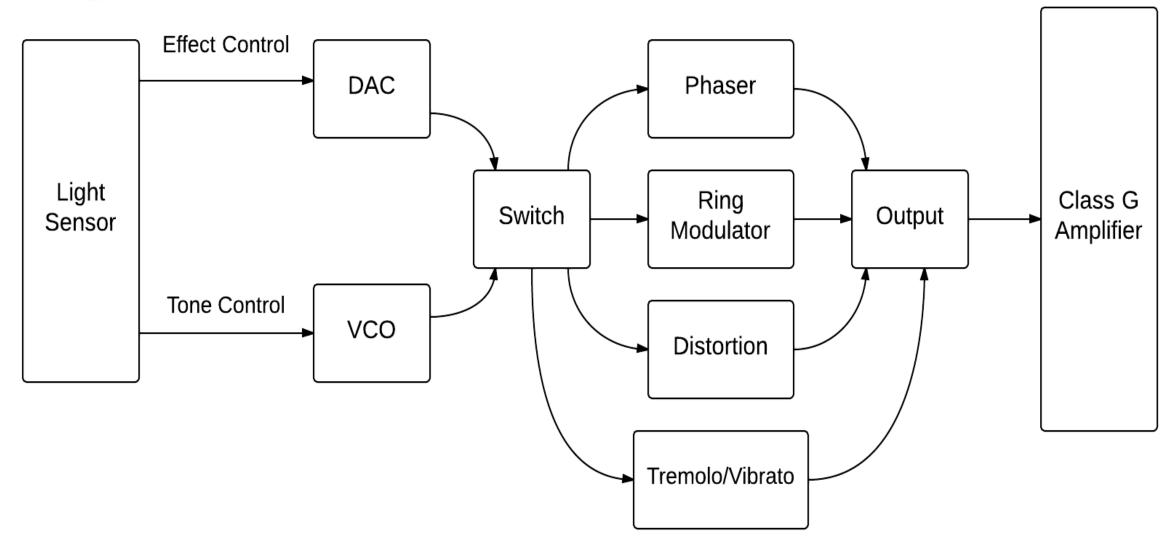
Transmitter/Receiver Waveforms



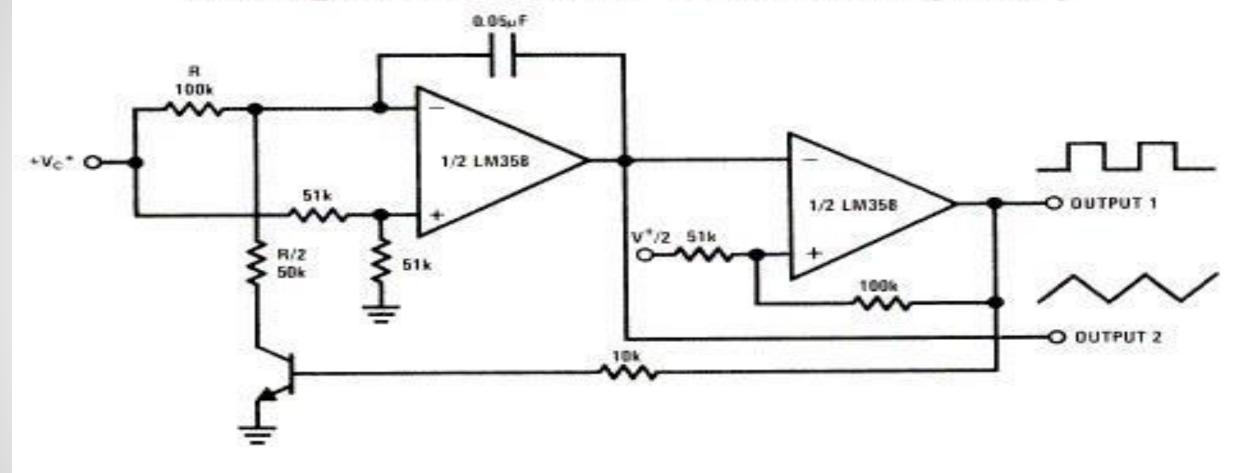
Transmitter Schematic



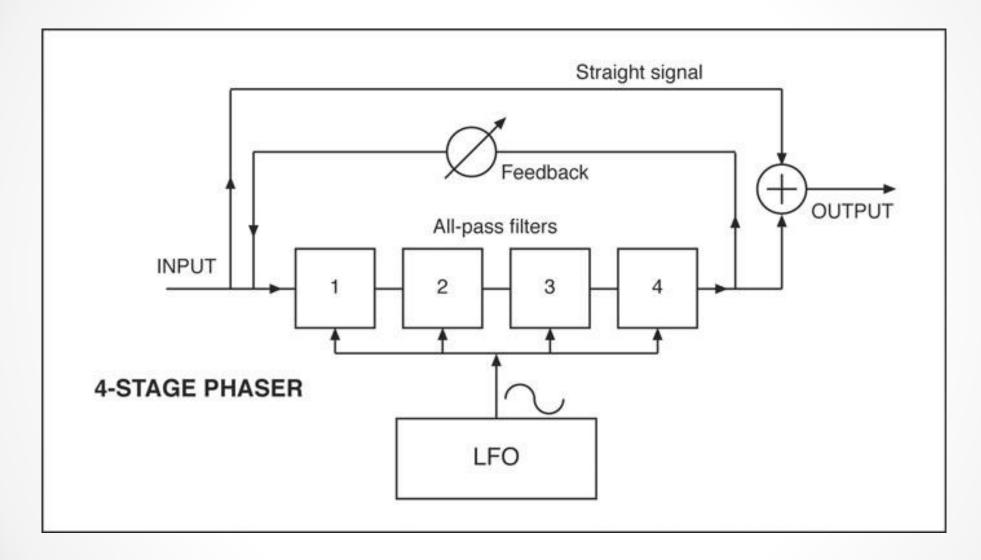
Synthesizer



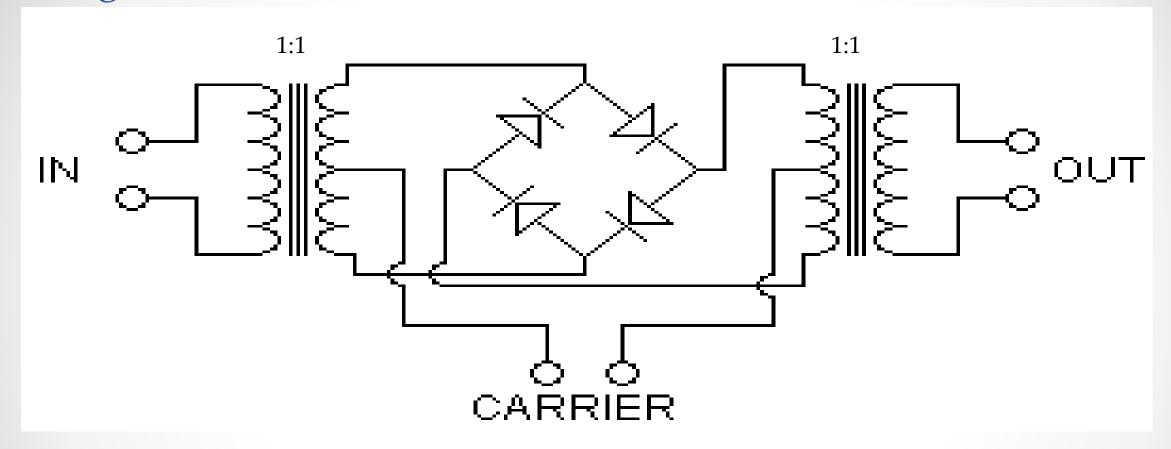
Voltage Controlled Oscillator (VCO)



Phaser

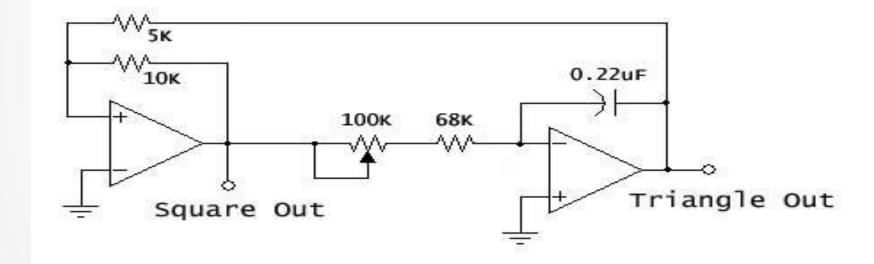


Ring Modulator

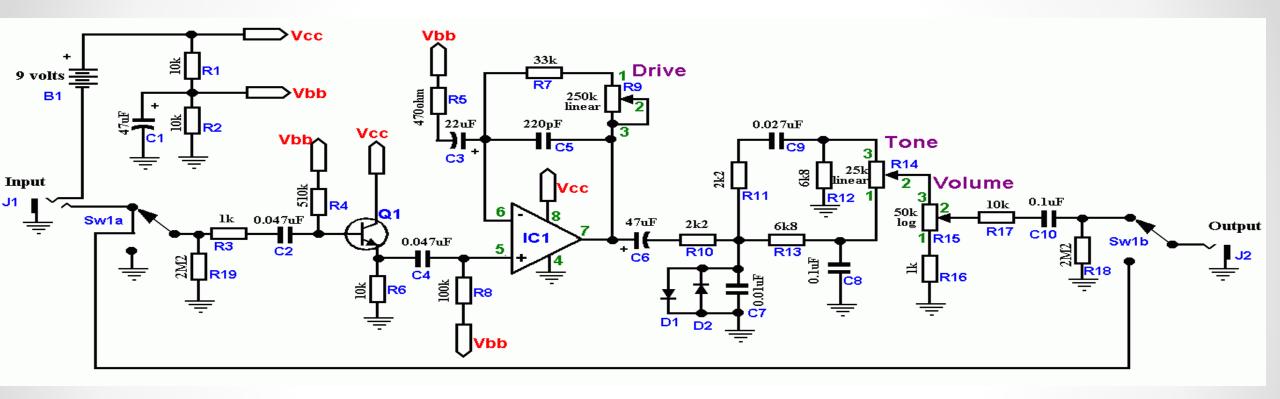


Vibrato/Tremolo

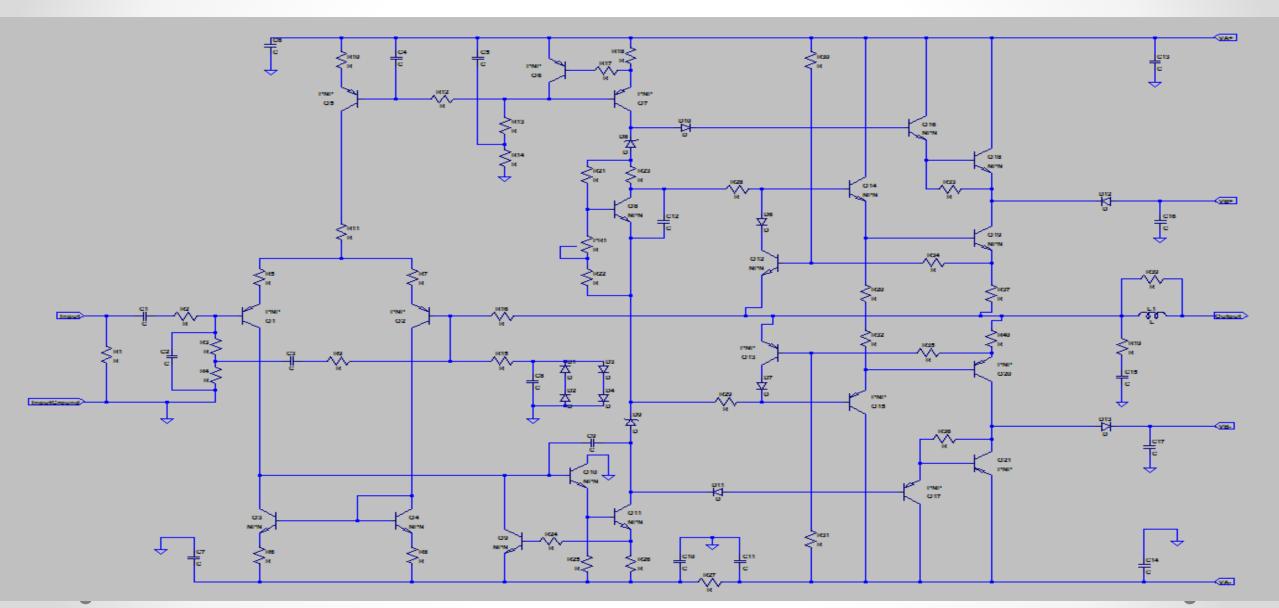
Low Frequency Oscillator



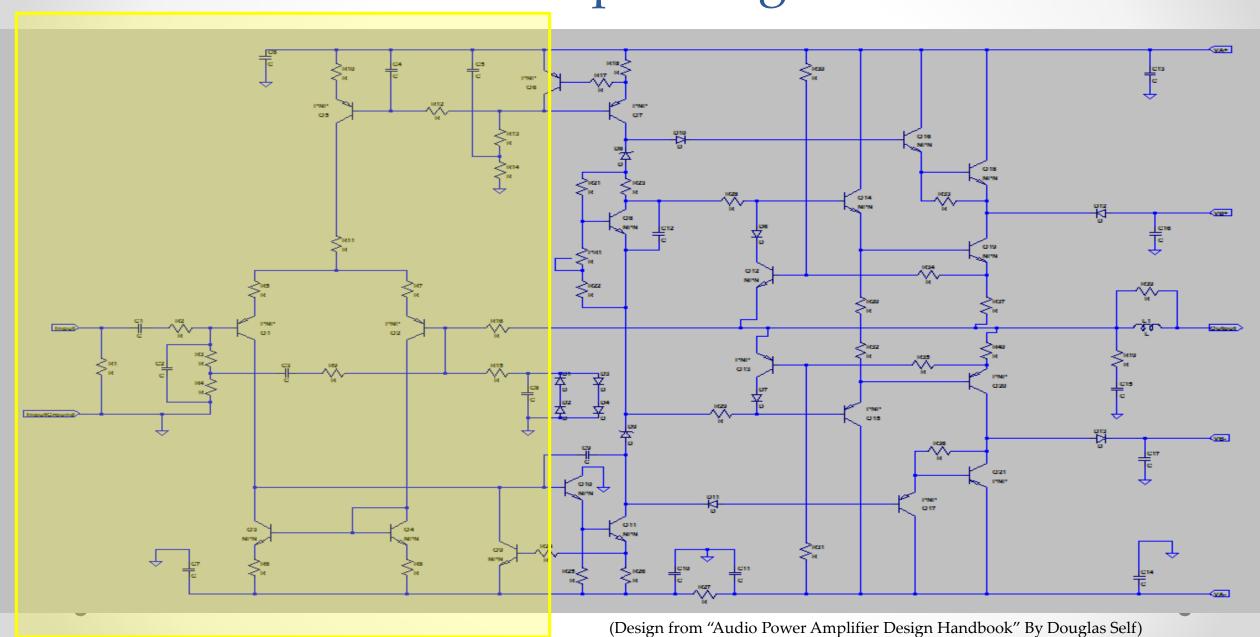
Distortion



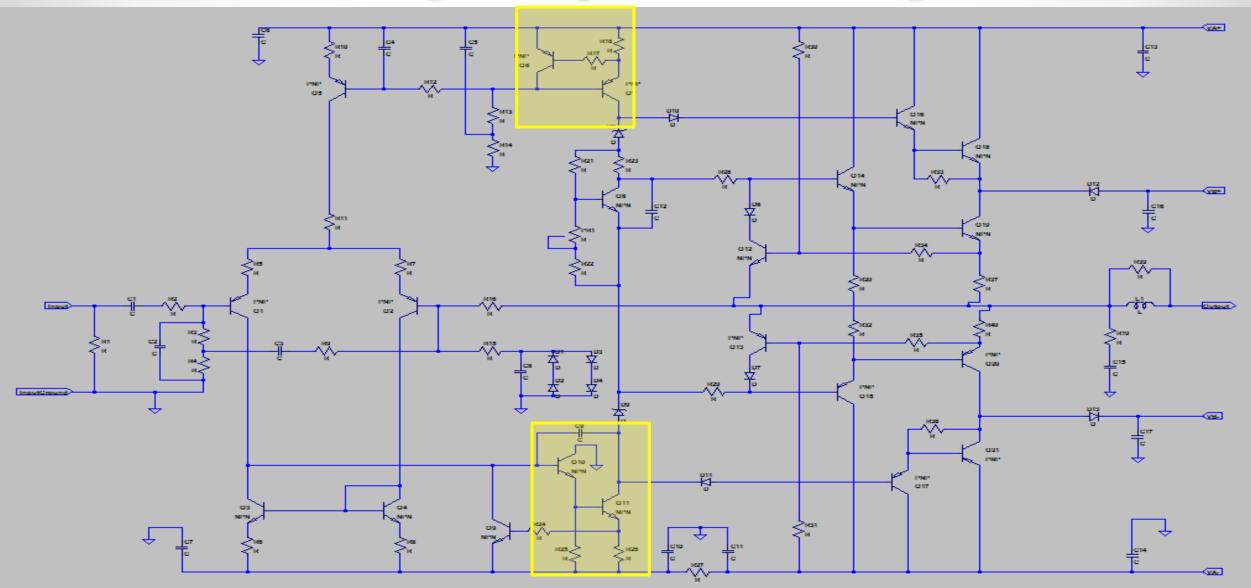
Class G Amplifier



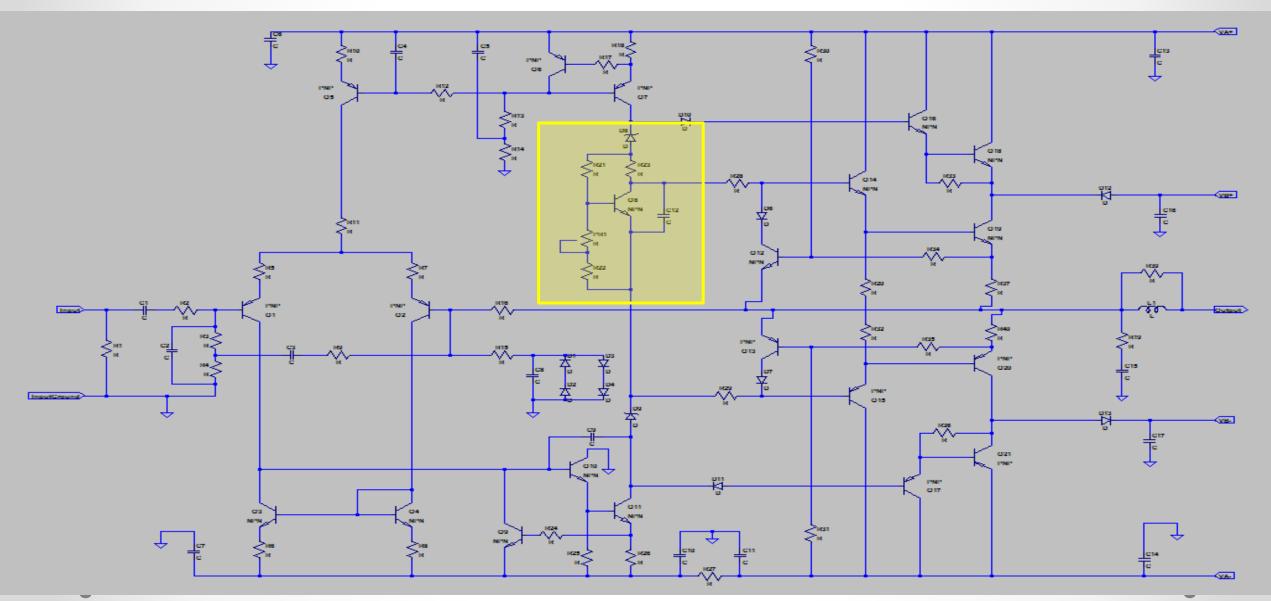
Input Stage



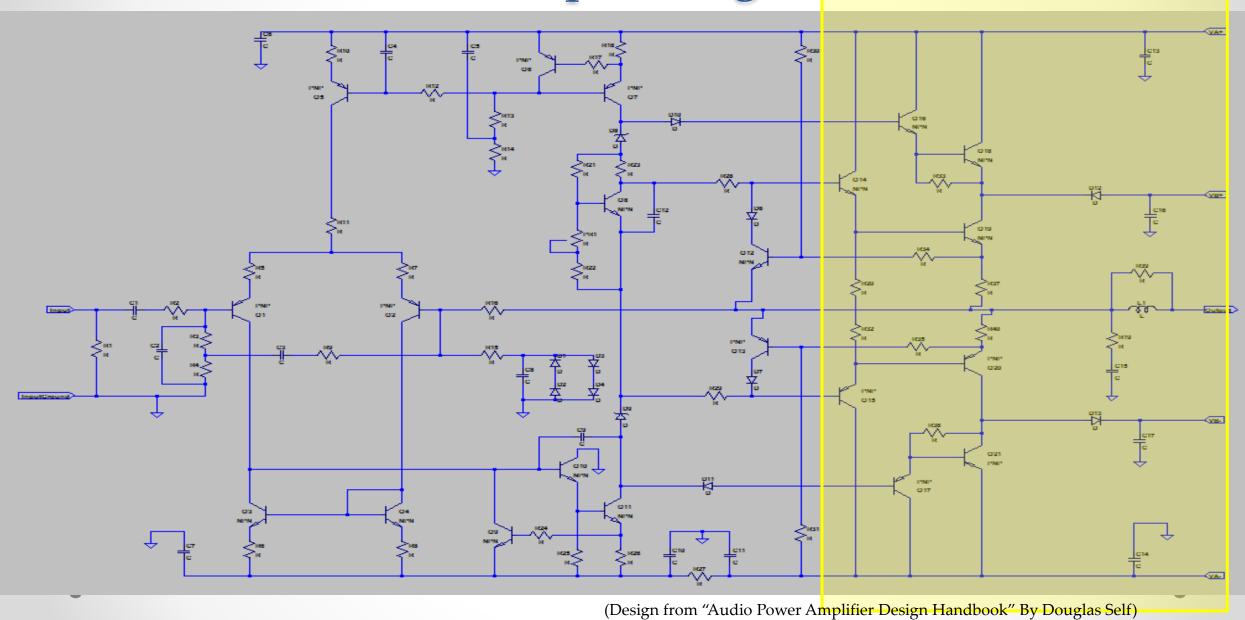
Voltage Amplification Stage



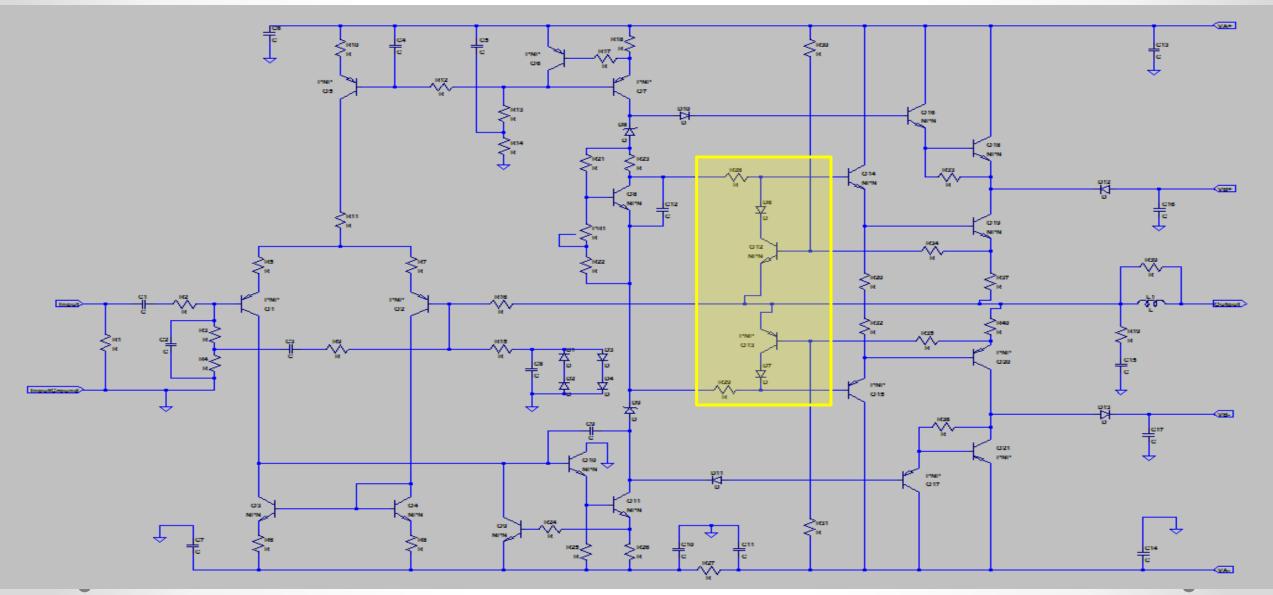
Bias Servo



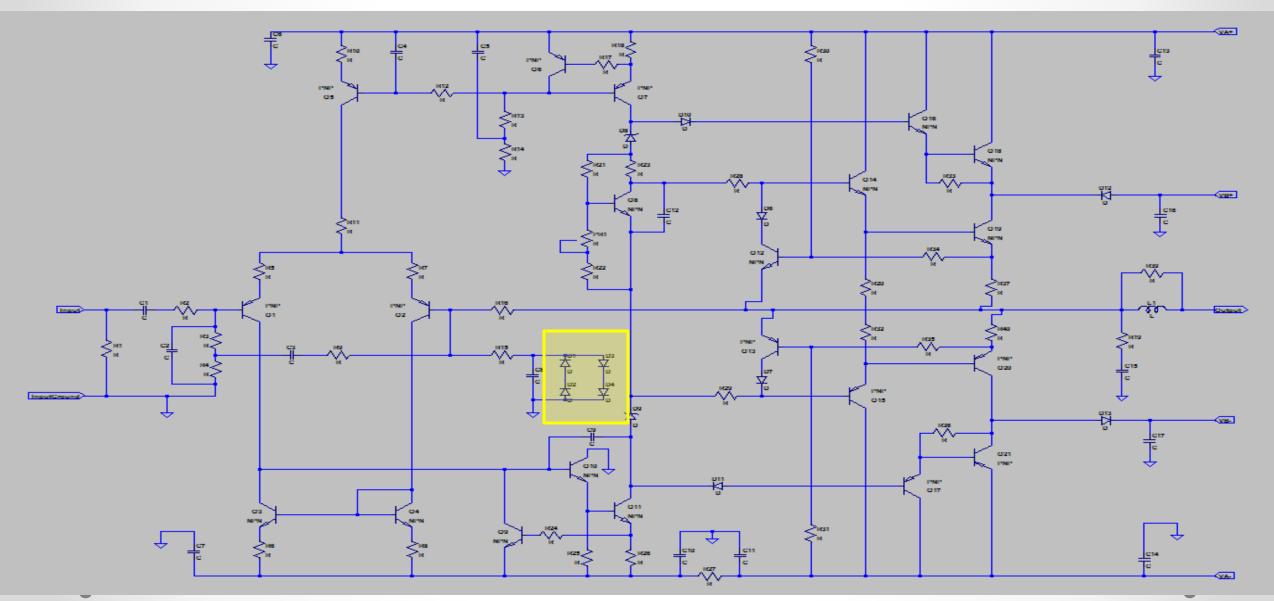
Output Stage



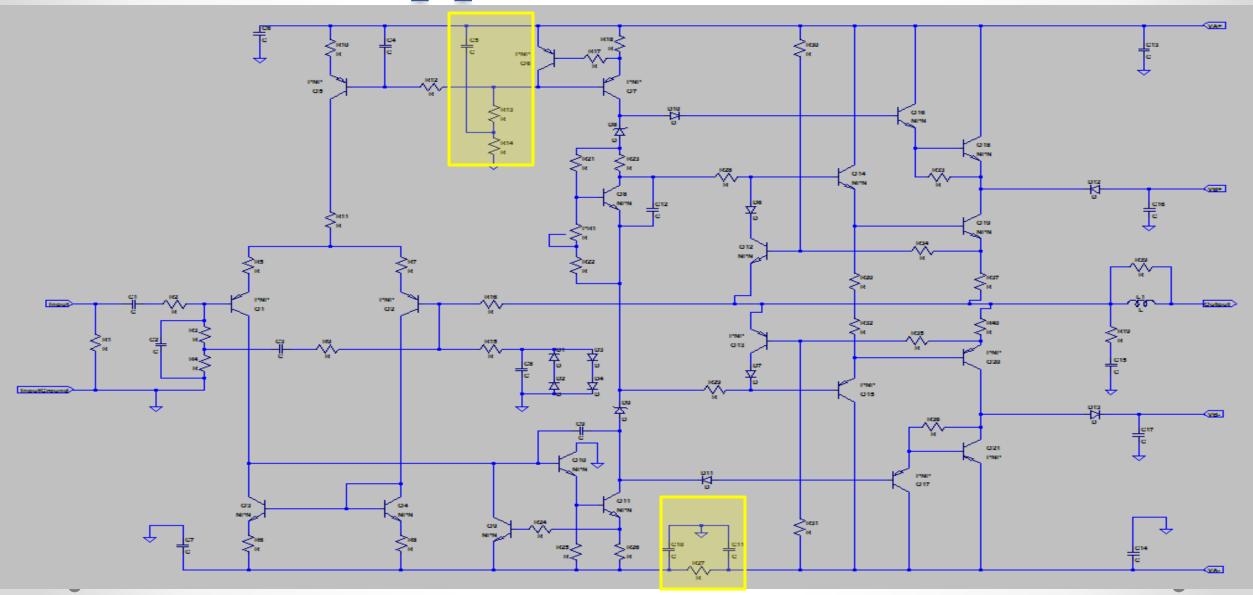
Overload Protection



Protection Diodes



Ripple Prevention



Timeline

- Week of 4/13: Schematics and Final Design
- Week of 4/20: Breadboarding and Testing Individual Modules
 - o PCB Layout and Ordering
- Week of 4/27: Integration of Modules and Testing
- Week of 5/4: Presentation of Final Product

Questions?