

ECE 4446

Fall 2015

Th 3-6pm

Lab 07

Building of a
Moving Coil Speaker
Due November 19th

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Purpose:

The purpose of this Lab was to build a speaker using a magnet, a coil of wire and various paper parts to illustrate the theory behind moving coil speakers. Various additional parts could be added to the design, such as a closed box, a vent and a power amplifier.

Experimental Results/Conclusion:

Our final speaker design is shown in **Figure 1**, it consisted of a moving-coil speaker, mounted in a closed box, with a vent. The input signal was passed through a power amplifier to increase the volume velocity outputted by the speaker.

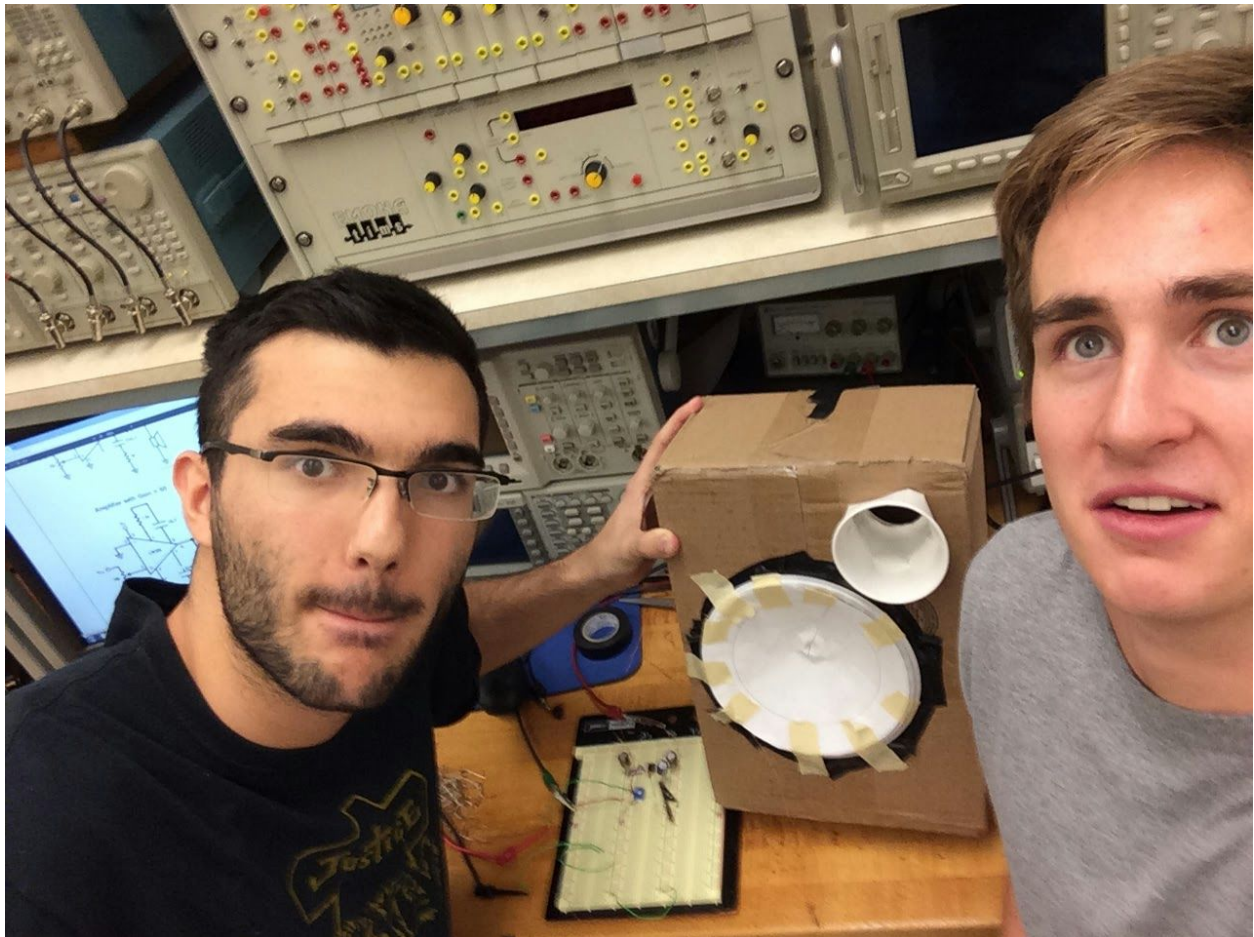


Fig. 1 Design of a closed-box, vented speaker with a power amplifier