

Subject of the MsC Dissertation:

Controlled Audio Valve Amplifier

Team:

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Accomplishments:

- An oscillation phenomenon appearing only in the signal current of the output valves in a specific range of the audio band was noticed. In the meeting that occurred at June the 8th, this problem was discussed as well as the structure of the final report;
- Introducing chokes for a better filtering, trying other mains power transformers and also changing output transformer were some of the several options that were taken in consideration in order to solve these problems that are revealing a great difficulty in this design. This proves that simulation is one excellent approach, however, it is not enough in order to reach an excellent final result;
- The microcontroller can now control the digital-to-analog converter IC. The level shifter circuit for the bias voltage interface between the microcontroller and the amplifier was simulated and finalized.