In this work has realized an active equalizer design. This equalizer is made by the signal processor TAS3002 and the microcontroller PIC18F452. The analog signal enters in a RCA1 jack and has been performed to digital with ADC from TAS3002 for being processed and filtered with the equalizer. This signal is amplified or attenuated from volume, bass, and treble. Afterwards, the signal returns to be converted to an analog signal from the DAC and sent to RCA2 jack.

All the parameters and control registers of TAS3002 are controlled from the microcontroller PIC18F452. The I2C interface is used for communicate two dispositives and then send information between them. All the registers have been programmed with MPLAB software before that.

It has built an electronic plate with two layouts which realize the functions that have been explained before.