In this work has realized an active equalizer design. This equalizer is maked by the signal procesor TAS3002 anb the microcontroller PIC18F452.

The analog signal enters in a RCA1 jack and has performed to digital with ADC from TAS3002 for being procesed and filter with the equalizer. This signal is amplified or attenuated from volum, bass and trebble. Afterwards, the signal return 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 microcontroler PIC18F452. The I2C interface is used for comunicate two dispositive and then sent information between them. All the registers has been programmed with MPLAB software before that.

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