

Abstract

The voice is a gift God gave to its inhabitants and the sound is something very important in our lives, because the sound we can communicate with others. With a voice as well we can express our lives, with our voice can convey the intent and purpose of our communication.

But on one side of the sound can be something very bad for the environment that we call it noise pollution. Like the rumble of the exhaust at the time of our traffic, living on the edge of the airport, working in a factory with a loud engine sound and more.

At the end of this project will be a design and realization of detector noise in units of decibels vehicle for its measurement scale. The working principle of this tool that processes the input from the speaker, then converted by an electronic circuit consisting of op-amps, transistors, resistors, capacitors, etc.. Which is then converted by the ADC into the sound levels later in the interface to the LCD screen, the viewer measurement results.

So can the realization of a noise detector that can help the enforcement on traffic regulations that objective

Key words: *noise pollution, decibels, microphone, ADC, LCD*