Apple iPhone/iPod Touch - iEffect
Mobile Guitar Effect Accessory & Application

Project Abstract
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Project Abstract:

We plan to design an accessory for Apple iPhone. Our accessory, the iEffect, will be a mobile guitar effect pedal add-on to the iPhone. It will allow the users to simply plug in the device to the audio port or 30-pin connector (depending on Apple access restriction). The user will interact through the iPhone touch screen interface with an effect pedal type structure that will change depending on the effect he/she has chosen. The interface will have a menu system to allow the user to choose what effect to control, whether it is a distortion, delay or numerous other effects.

The iEffect will be an external guitar effect module to modify a guitar’s unamplified signal and provide a ¼” jack to output to an amplifier. An MSP430 will be used to modify the waveform after the preamplification circuit. The iPhone will be used to choose and control the effect that the user wants to implement. For example, if distortion is selected, the user could control the volume and gain through a custom touch screen interface.