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**MICRO SET HI-FI
PROJECT II (KEU 380)**

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ABSTRACT

A Micro Set Hi-Fi is a stereo audio amplifier and it is capable of monitoring and displaying power levels present of the speaker terminals. It also show us the tune of the sound if it low or high. The sound tune is shown in waveform by using LED's. The LED's is set in straight line to form the waveform. Normally, it is used in electrical devices that related with sound such as the amplifier and the radio. For many situations, this project being used at functions like music concert, parties, amusement club and the others. Our project is efficient, simple and cheap because we used fewer components.

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1.1 INTRODUCTION

The conventional audio devices have low quality of sound. It also does not have enough power to support high impedance loads that give better quality of sound. By using Micro Set Hi-Fi, we can control the quality of sound from the external audio devices such as a Walkman, Discman and radio.

This project is designing basically an analog concept. This circuit divided by three major sections. They are Volume Unit Meter, Tone Control and Power Amplifier. The major component of Volume Unit is LM3915 IC, Tone Control is the variable resistor and Power Amplifier is the μ PC 2002 IC.

The Volume Unit Meter is to show the volume levels. The tone Control is to adjust the frequency of input signal. They are low and high frequency, bass and treble respectively. The Power Amplifier is used to amplify power of the signal from the Tone Control.