

SCHOOL OF ENGINEERING

DESIGN OF ELECTRONIC ACOUSTIC STETHOSCOPE

FINAL REPORT

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## **Abstract**

This project consists of two main units, power amplifier unit and stethoscope unit. The power amplifier unit can be divided into two main parts power amplifier and volume controller. While for stethoscope unit it can divided into three parts, preamplifier, low pass filter and FM transmitter. A software called Acoustic Analyzing System 5SE (DSSF3) is employed to be the analyzer for heartbeat sound. Besides that, another two softwares called MSN messenger 6.2 and PVR Plus, are used for the internet communication tools and FM receiver controller. The experimental result is obtained from a few test, direct plug-in from the stethoscope unit, FM transmission and real time remote auscultation via internet. A thorough test on the stethoscope unit alone is done with human heartbeat sound. The results of all tests are satisfactory.

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