

ECG SIMULATOR

As ECG is used to record the heart wave and find the abnormal rhythms caused by the heart tissues, electrocardiograph simulators are used to generate electrical signal like the ECG signal so that ECG recorders can monitor and test the heart signals simultaneously. They are also used for the calibration and servicing of ECG machines. The main objective of this project is to design a three lead ECG simulator device which can be used to perform the calibration and testing of ECG recorders. The produced ECG signals can be compared to human ECG and abnormalities can be identified. The design and implementation also involved several different hardware components as well as software functions.

The simulator circuitry consists of:

- *ECG wave generating circuit*
- *PIC microcontroller*
- *Graphical display*

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