

ABSTRACT

The heart is a human vital organs that serves to pump blood to the whole body. A heartbeat can be used as a healthy body parameter conditions. However, often happens delay know symptom of organs heart that can cause delays in handling. A solution can be done to overcome this problem of making a tool to display in real-time the pulse.

A system that has been implemented comprising several main components pulse censorship, microcontroller Bluno, display OLED, and use the android application. The pulse read and sent to microcontroller. The data processed in real-time and displayed on display OLED. Microcontroller will process data and result in real-time will be displayed in OLED. If detected the pulse abnormal would emerge reminder of the votes of buzzer and SMS sent to the patient family. Data transmission to the server every 24 hours once or when the pulse not normal. Warning systems run when the pulse over 100 bpm (beats per minute) or lower than 60 bpm (beats per minute).

Keywords: Android Studio, Display OLED, pulse , Microcontroller Bluno, censorship.