Abstract

Faced with a growing number of hypertensive patients blood pressure measurement needs, this paper designed the intelligent wearable device based on Android phones. Mainly introduces the design and implementation of hardware and software of the Android mobile phones and STM32 as the core, individual blood pressure and heart rate control and measurement. Implements of the Android WiFi control of blood pressure, blood pressure measurement and abnormal warning s a good way to meet the demand for the hypertension patients on blood pressure measurement, has the characteristics of high performance, low cost and low power consumption.

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**Index Terms**

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**Keywords**

Android APP Development, Wearable Device, WiFi Wireless Communications, Data Collection.