Real Time Wireless Electrocardiogram (ECG) Monitoring System

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Abstract:

This project integrates the wireless capability with an electrocardiogram monitoring system. An electrocardiogram signal will be acquired, modulated and transmitted wirelessly to a remote receiver. The receiver will demodulate and process the ECG signal in a way to give sound feedback and fire predefined alarms in case of too low or too high heart rates. The strategy to undertake this project is to develop separated modules, each one responsible for one feature. They will be tested independently first, and only after they are tested and proved to be working separately, they will be integrated in a single product; in an attempt to ensure efficacy and reliability.