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Group 6

CS 479

Lab 2: Individual Report

In this lab we have created a wearable chest strap which monitors the heart and respiratory rate. This wearable strap is embedded with electronics which records Electrocardiograph(ECG) signals using AD8232 heart monitoring board. In order to measure the respiratory rate a force sensitive resistor (FSR) is connected to the peripheral board and placed in the chest strap. When the strap collects the data in fitness mode our interface will collect the data from 30- sec of baseline from the user. When we perform a physical task our interface will display the data which the user is experiencing with the current cardio zone. In the same way we will collect and display the data when user experience different situations such as stress and meditation. The following diagram shows how the UI works for the chest strap which we have developed in this lab.



