

Design and Development of Two Networks of a Wearable e-Health System

Aaron Floyd, Bailey Holbrooks, Fred Washburn, Huihui Wang
Jacksonville University

Extended Abstract

In this project, two e-health networks are designed and developed. One is the wireless communication network and the other one is the social network. In the wireless network, a wearable e-health system communicates with a person's phone, a data storage system in a hospital, or a caregiver computer. This e-health system named LitBIT consists of a Simblee module, a pedometer (step counter), heart rate sensor, and a temperature sensor. Through this wireless communication network, we or our care takers or our doctors are able to get our health information such as steps taken, heart rate, and our body temperature. Through this wireless communication network, our doctors or care takers can assist in our wellbeings. In addition, we will continue our research to develop another App to form a social network of LitBITs. In order to cover people's most popular interests in the App, surveys will be done to get feedback about the health metrics or interesting social topics we need to include in our App. For example, we aim to develop one feature of this App is the daily walking steps competition. These two networks will contribute to improve the homecare for the general public especially seniors.