Sensor networks on a mobile platform

University of Missouri - Columbia

Ryan Donnelly

Undergraduate Student: Computer Science

rjdgy5@mail.missouri.edu

Student Mentor: Paul Baskett

Graduate Student: Computer Science

pkbkbc@mail.missouri.edu

Student Mentor: Tiancheng Zhaung

Graduate Student: Computer Science

tz9q3@mail.missouri.edu

**Abstract**

 *Smartphones have many sensors and collectively they can form a sensor network to monitor the environment. A security network was created with three to four smartphones, where the smartphones react to their sensors and collect data. The data can track things like who entered a room and what that person is doing. When the light sensor receives light, the program takes a picture and records audio. One major problem is that the light sensor is inconsistent. All of the data collected from each sensor is returned to one central smartphone. This data, picture and audio files, can then be interpreted. This ad-hoc type of security network could be very helpful if you need to set up quickly.*