

Project Number 12

Project Title: Good Samaritan: A Mobile Aid to Help Concerned Parents Monitor Their Young Children

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Project Scope: Location Based Device, Mobile Application, Microcontrollers

Abstract: Our main goal of this project is to help parents keep track of the safety of their small child. Small children around the age of 2 and 3 are often too young to have their own phones but need some point of contact with their guardians. Our project is a solution to helping parents know that their child is safely at school or for teachers to make sure their students are still within reach on a school trip. We have designed a wearable for the child to have on them that tracks their location and pings this location to a database via WiFi connection. Along with this wearable, we have also developed an Android phone application that updates the parent on the location of the child. The wearable is a wrist wrap that uses an Adafruit HUZZAH Feather with ESP8266 WiFi to transmit the location and sensor data to the online, real-time database. We are using Firebase to provide real-time updates between the wearable and the application.