

Leonardo Luna
Dakota Rosell
Brett Doughtry
Mengmei Ye

Progress Report

We have conducted research on how to go about to develop the application, and constructing the hardware side with Raspberry Pi. We have established how we are dividing up the work. Dakota and Leonardo will handle the hardware implementation with the sensors and Mengmei and Brett will handle the software side of the project. We have found resources to develop the application for gesture passcodes and the creation of the application, detecting WiFi devices with Raspberry Pi, and interfacing Raspberry Pi with an Android application. We have had no issues brainstorming or implementing the idea. The only task we had was to figure out which sensors to use to execute our project properly. One of the current issues is that we don't have the ability to connect the Raspberry Pi to RUwireless, so we can't do any of the WiFi interfacing on campus. The way we are fixing this is by working on it over Thanksgiving break at our houses, where we have access to our own WiFi networks. This also raised the problem of how will we go about doing a demonstration in class. To solve this, we will either be using a mobile hotspot to open an internet access point to connect to, or bringing a router of our own. Using a router would probably be easier, since you have the ability to configure everything in the settings, but a hotspot doesn't allow the same customization. In short, our project is going well, the work is divided up fairly, and we all know what we have to do and are working on executing our parts.