

# *Internet of Things: R&D With Embedded Systems*

*Matt Aylor, Zach Daher, Tami Farber, Clinton Schultz and Samuel Cho*

The research we conducted over the course of the summer having the goal of sharing information among many different IoT devices including mobile. The first couple of weeks we began by familiarizing ourselves with the technology and the C based code behind various switches and electrical devices as well as the use of Arduino for a central processing unit. From there we were introduced to the idea of implementing Bluetooth to the device in addition many different sensors were brought forth to be used such as, temperature, motion, and light. The next hurdle we had to overcome was adding the temperature, motion, and light sensors we were given into the Arduino and having a way to display the readings through an LCD screen. Our group was able to take an arduino and wire it to various sensors such as temperature, motion, light, and then have the sensors return a reading and display on a LCD screen. Moving forward we will attempt to take more complex readings on various devices.