

## EE/CprE/SE 491 WEEKLY REPORT WEEK 9

March 4, - March 10

Group Number: 14

Project Title: IoT Passive Monitoring of Assisted Living Homes

Client: Andrew Guillemette, Optical Operations

Advisor: Goce Trajcevski

Team Members/Role:

Trevor Henderson	--	Test Engineer
Nick Schneider	--	Meeting Scribe
Austin Kerr	--	Chief Engineer
Austin Sudtelgte	--	Chief Engineer
Ryan McCullough	--	Meeting Facilitator
Josh Blanck	--	Report Manager

### Weekly Summary

Sensor list was finalized, and most of the parts were ordered: the BCG is delayed until sufficient funding is secured. The Azure account has been created and is ready for us to work on. Diagrams for server communication and pin diagrams were created, and will be added to Design Document v2.

### Past week accomplishments

All: Met with Greg twice to go over the Sensor Justification and work on getting the parts ordered so they can be delivered over Spring Break. Established Azure account.

Trevor Henderson: Researched sensors for the Sensor Justification document. Also worked on the cloud architecture design.

Nick Schneider: Took notes during meetings. Began to understand Android development.

Austin Kerr: Worked on the Sensor Justification document with the rest of the team as well as the Bill of Materials. Completed pin mapping diagrams for each Raspberry Pi that will be apart of the system. Researched the Raspberry Pi and Pi Zero W to determine what parts will be needed in addition to the Pis and the sensors, as well as learning how the OS is installed and run for the Pis.

Austin Sudtelgte: Researched load cells and aided in the creation of a bill of materials

Ryan McCullough: Developed plans for testing sensors and began exploring cloud server and app environments.

Josh Blanck: Created and improved the server communication diagram.

### Pending issues

None.

## Individual contributions

Name	Individual Contributions	Hours this week	Hours Total
Trevor Henderson	See past week accomplishments.	3	17.5
Nick Schneider		2.5	19
Austin Kerr		5	19.5
Austin Sudtelgte		3.5	22
Ryan McCullough		3	17.5
Josh Blanck		2	19.5

## Plan for coming week

All: Work on v2 of project plan.

Trevor Henderson: Begin cloud server development as well as initialize the application server

Nick Schneider: Begin working on Android development. Work out architecture for app with team members. Look into the operating systems that can be used for the raspberry pi's.

Austin Sudtelgte: Begin setup of server. Create tasks for the team to work on.

Ryan McCullough: Begin working with Xamarin and azure to develop app and server.

Josh Blanck: Begin working with Xamarin/Azure to develop the app.