sdmay18-34: Integration of personnel tracking in an Augmented reality environment
Week 10 Report
November 27 - December 1

Team Members

Logan Highland — *QA Lead*
Chandler Chockalingam — *Project Manager*
Christopher Stapler — *Report Manager*
Josua Gonzales-Neal — *Chief Engineer*
Jason Ramirez — *Software Architect*
Victor Da Silva — *Chief Engineer*

Summary of Progress this Report

In this reporting period, our team continued to work with RSSI technologies. We completed the task of changing our software architecture from using Channel State Information (CSI) to Received Signal Strength Indicator (RSSI) technology. We also worked as a team to tie up loose ends for the semester, including working together for about seven hours to discuss our ideas with our client, finish up our project plan, come up with ideas for the design document, and put together our presentation slides. We documented our architecture and plans going forward for next semester.

Pending Issues

We still need to make a prototype for the RSSI technology solution we are pursuing. We have everything in line to make a prototype, we now just need to order all of the parts we need to create one. We also want to be able to put together a working demo of the technology we want to pursue. While this will not be ready for our end of semester presentation, it will be useful to have.

Plans for Upcoming Reporting Period

For next semester we hope to immediately start the process of implementing the solution which we have spent this semester researching and designing.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Logan Highland	Worked on the project plan, design document, and final presentation. Set up some testing for using RSSI to track a person.	7	50
Chandler Chockalingam	Worked more on finding RSSI solutions, worked on project plan, put together template of design review slides	8	50
Christopher Stapler	Worked on finding open-source RSSI-based localization solutions we could potentially build off of. Found The Framework for	10	69

	Internal Navigation and Discovery: Find, which an internal positioning framework that can be run on a variety of devices. I was able to test its tracking capabilities with using my Android phone.		
Josua Gonzales-Neal	Helped install Linux onto the pc. Worked on the project plan, design document, and final presentation. Looked over the future schedule to make sure we stay on track with our deliverables.	7	48
Jason Ramirez	Switching the software architecture over from using CSI to using RSSI. Created visuals for the final presentation along with system components. Worked on editing final project plan. Practiced my part for the final presentation.	7	50
Victor Da Silva	Worked on the semester presentation for next Wednesday's presentation. Also continued work with RSSI script and tested for location tracking. Prepared work for next semester's jobs for our project.	7	49