Final Project ECEN 489

General Outline:

-Whole Video less than two minutes

-Specify goals of the project

-Talk about Phase I

-Talk about Phase II

-Talk about Phase III

**Intro**

* Fade In (Possible Cold Opening) (Max 30s)

-“ECEN 489 Final Project Team 3”

* Specify the goals of the project in this section and clarify any terms that might be used.
  + General images of the project might be used here or some chosen background image

-“The goals of this project were to take two antennas positioned on a path and using our android device gather RSSI values and redirect one of the antennas with GPS points.”

“Then with those RSSI values we would apply an algorithm to rebuild the characterization map of the antennas.”

“Special emphasis was put on building a system that would maximize the RSSI values on the predetermined path.”

**Phase I**

**-**“In Phase One the team was tasked with building the basic components on which the project would be based such as:”

“An app that could gather RSSI Values”

“A server that was able to push the RSSI values to a SQLite database”

“Ensuring that the Motor Hardware could operate as well as a holder on which to mount the antenna on the Motor”

“The team was also tasked with rebuilding a characterization map for the Cantenna”

**Phase II**

**-**“In Phase Two the app was upgraded to also send GPS points back to the server”

“The server can then take those GPS points and make a degree correction to send to the Motor to rotate the Cantenna”

“Also using the App we took RSSI of omnidirectional antennas and using our Algorithms rebuilt the characterization map uploading the results to Google Fusion Tables”

**Phase III**

**-**“During Phase Three the full system was deployed. Using our Android app we gathered RSSI values and using GPS were able to control our Cantenna as we walked along the path.”

* Might include a short video of the system working

**Conclusion**

* Picture of the Team

**-**“Using the skills we gathered throughout the year in four weeks were able to deploy a working system” (Better Wrap Here)

**Credits**

* (Max time 3 s -5 s)
* In this section we need to have a credit list of all team members listed next to position. We might also include a thank you to Dr. Huff and Dr. Chamberland.
  + Images would be a static or scrolling credit list on black background. Could have back ground music
* Fade to black