

EE 492 Weekly Report | Dec15—02 | Week 12 11/16/2015

Project Title: Human Dielectric Equivalent Model	
Advisor: Jiming Song	Client: Honeywell
Members (roles): Stephen Nelson (Team Leader), Cory Snooks (Communications Leader/Webmaster), Andrew Connelly (Webmaster), Jacob Schoneman (Concept Holder).	

Weekly Summary:
Worked on presentation and started working on the poster. Measured samples on the network analyzer and analyzed data. Spoke with Dr. Song about the values fitting the Z parameters vs Y parameters. Re-designed the network analyzer test fixture to minimize loop inductance. Researched and purchased a conductivity meter. Separated tissues by color in HFSS. The physical puck material was simulated in HFSS.
Meeting Notes:
Need to evaluate data compared against Z and Y parameters and investigate possible sources of error. We expect the Y parameters to be more accurate. The data is showing that the test fixture is acting like a loop inductor which is causing incorrect readings.
Pending Issues:
Testing materials and sorting through the results. Getting models working in HFSS.
Plans for Next Week:
Continue research, testing, and phantom construction. Continue to develop HFSS model. Start work on presentation poster and compiling the final report.
Individual Contributions (This Week):
Jacob Schoneman: 12 hours Cory Snooks: 8 hours Andrew Connelly: 23 hours Stephen Nelson: 14 hours
Total Contributions for the Project:
Jacob Schoneman: 168.5 Cory Snooks: 174 Andrew Connelly: 173.25 Stephen Nelson: 218.5