

# EE 491 Weekly Report | Dec15—02 | Week 6 3/2/2015

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

## **Weekly Summary:**

The team started researching materials that can be used to mimic human body properties. A body mold was made. We tested the electrical properties of 3 cups of gelatin and found that we can pass a sine wave through it with very little degradation of signal. Andrew took over the software side of the project and researched different models to use.

## **Meeting Notes:**

The team clarified that the client wants a physical model with 75% or greater accuracy when compared to actual human properties. We are allowed to constrain the desired frequency ranges if it means producing a more accurate model. The model should last at least a couple of weeks. The model can have leads placed in each wrist for now. We need to run the UT Austin's model in HFFS.

## **Pending Issues:**

Need to research material to use for the frequency bands of interest. Finding materials that are accurate and will not deteriorate.

## **Plans for Next Week:**

Meet with advisor on 3/2/2015. Meet with group on Thursday. Continue with materials research.

## **Individual Contributions (This Week):**

Jacob Schoneman: 6 hours  
Cory Snooks: 6 hours  
Andrew Connelly: 7 hours  
Stephen Nelson: 6 hours

## **Total Contributions for the Project:**

Jacob Schoneman: 23 hours  
Cory Snooks: 24.5 hours  
Andrew Connelly: 22.25 hours  
Stephen Nelson: 27 hours