Dec12-04 Ultrasound Brain Imaging System

Weekly Report - 8 (Mar 6 - Mar 12)

Group Members: Justin Batcheler, Jon Driggs, Francis Ferrer, Allen Kellar, Richard Page, Amairani Tapia Faculty Advisor and Client: Dr. Timothy Bigelow

Accomplishments of the last week

- Working on getting running simulations for Cadence models found.
- Realized National Instruments does not have any products that fit our needs.

Plan for coming week

- Focus on finding A/D and D/A cards to bring about the waveform generation and acquisition.
 - We will create our own board if nothing is found.

Pending issues

Finding companies that build A/D and D/A cards.

Individual contributions - identify specific tasks accomplished

- Richard:
 - Designing and simulating the high voltage switching transistor and variable gain amplifier models obtained from Texas Instruments.
- Amairani and Allen:
 - o In process of getting a working variable gain amplifier model.
- Justin and Francis:
 - Worked on designing and simulating the T/R switch.
- Jon:
- Looking for a suitable H-Bridge IC to use for high voltage switching. Will upload these models into Cadence OrCAD for simulation.

Meetings

- Group meeting on Wednesday with everyone in attendance except for Amairani.
- Group meeting on Friday with everyone in attendance.

Hours

Below are the hours worked for each member.

Justin	Jon	Francis	Allen	Richard	Amairani
3	6	6	4	6	4