**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:
  + 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.

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