Dec12-04 Ultrasound Brain Imaging System

Weekly Report - 13 (April 17 - April 23)

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

- Finished the PowerPoint and practiced for the final presentation.
- Finished final versions of the design document and project plan.
- More accomplishments under individual contributions.

Plan for coming week

- After recent changes to the parts that need to be ordered, we are shooting to have the order list completed by the end of finals week.
- Practice for Presentation on the 24th.
- Amairani
 - Learn PCB software.
- Allen
 - Understand how the AFE EVM works.
- Jon
 - Continue working on design circuit for the Transmit board.
- Francis
 - Obtain an estimate for the ultrasound transducer impedance characteristics.
- Justin
 - Understand how to connect one EVM to the other.
- Richard
 - Continue working on power regulation.

Pending issues

- Find someone that can program FPGA board.
- Finding a company that can supply us with a transducer.

Individual contributions - identify specific tasks accomplished

- Justin
 - Worked out on the test plan for the AFE
- Jon
 - Found components for and started the design of the output multiplexing circuitry, which can now be controlled with a serial interface
 - Worked to identify digital data acquisition hardware
- Amairani
 - Contacted National Instruments to find data acquisition hardware
- Richard
 - o Completed power regulation designs and simulations.
- Allen
 - Worked on test plan for AFE.
- Francis
 - Worked on Ultrasound impedance.

Meetings

- Group meeting on Wednesday with everyone in attendance.
- Group meeting with Dr. Bigelow on Friday with everyone in attendance.

Hours

Below are the hours worked for each member.

	Justin	Jon	Francis	Allen	Richard	Amairani
Last Week	13	17	12	12	13	9
Cumulative	100	172	106	100	109	100