

Dec12-04 Ultrasound Brain Imaging System

Weekly Report - 9 (Mar 20 – Mar 26)

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.
- Finished 1st draft of the design document.
- Started to revise project plan for next week.

Plan for coming week

- After talking to Dr. Bigelow we have decided to change from using A/D and D/A cards to using DSP chips and programming them to generate square waves.
- After we understand the DSP test board, we should be able to copy the circuit on that board and make our own DSP waveform generation circuit cards.

Pending issues

- Finding a company that can supply us with a transducer.

Individual contributions – identify specific tasks accomplished

- Richard:
 - Working on simulating the low-noise amplifier.
- Amairani and Allen:
 - Working on simulation of ADC and DAC.
- Justin and Francis:
 - Worked on designing and simulating the T/R switch.
- Jon:
 - Working on designing switching circuit for the H-bridge. Working on finding a DSP evaluation board to order for next week.

Meetings

- Group meeting on Wednesday with everyone in attendance.
- Group meeting on Thursday 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	9	12	9	10	9	9
Cumulative	60	70	60	60	60	60