**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
  + 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 |