**Dec12-04 Ultrasound Brain Imaging System**

**Weekly Report - 12 (April 10 – April 16)**

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**

* Prepared the list of parts to be ordered.
* See Individual Contributions.

**Plan for coming week**

* Order circuit components.
* Everyone
  + Write out test plans for test circuit boards.
  + Continue updating the list of parts to be ordered.
* Amairani
  + Find NI digital data acquisition hardware.
  + 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 and Francis
  + Start looking for a power supply and inverter.
* Richard, Justin and Francis
  + 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**

* Jon
  + Working on the design circuit for the Transmit board.
* Amairani
  + Found cases for circuit parts we are ordering.
  + Found possible BJTs.
* Richard, Justin and Francis
  + Started figuring out power regulation.
* Allen
  + Working on identifying how the EVM circuit works.

**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 | 13 | 13 | 7 | 13 | 10 |
| Cumulative | 87 | 135 | 94 | 88 | 96 | 91 |