

## **Dec12-04 Ultrasound Brain Imaging System**

### **Weekly Report - 11 (April 3 – April 9)**

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**

- Completed presentation in front of class.
- Meeting with Dr. Bigelow to decide what parts to purchase.
- Meeting with Dr. Mina to help plan the rest of this semester.
- Made a list of parts to order.

#### **Plan for coming week**

- Amairani
  - Learn PCB design software
  - Help design the Transmit Board
- Allen
  - Learn about receive circuit EVM and figure out how to test it
- Jon
  - Help design the Transmit Board
  - Looking for someone to help with programming of the FPGA board
- Francis
  - Research Korean and Chinese Ultrasound companies
  - Figure out what signal the ultrasound needs to see to properly work
- Justin
  - Work on the receive circuit EVM with Allen
  - Help Richard with the power regulation test board
- Richard
  - Work on power regulation test board

#### **Pending issues**

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

#### **Individual contributions – identify specific tasks accomplished**

- Jon:
  - Found ideal HV Pulser.
  - Designing Transmit board
- Amairani:
  - Learning PCB software
- Justin and Richard:
  - Working on power regulation of ultrasound
- Francis:
  - Researching foreign ultrasound companies
- Allen:
  - Working on testing of receive circuit EVM

#### **Meetings**

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

## **Hours**

- Below are the hours worked for each member.

	Justin	Jon	Francis	Allen	Richard	Amairani
Last Week	8	17	7	9	9	8
Cumulative	74	122	81	81	83	81