

## WEEKLY REPORT

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|--|-------------|
| Group name : DEC13-01-Ultrasound Brain Imaging System  | Date:3/4/13 |
| Client/Advisor: Tim Bigelow  |             |
| Attendees/Role: Zach Bertram(Webmaster), Maurio Mckay(Communication), Michael McFarland(Leader), and Jonathan Runchey(Communication) |             |

### ACCOMPLISHMENTS FOR PAST WEEK

| WHAT  | WHO            | WHEN            |
|---|----------------|-----------------|
| Meeting with Advisor  | Whole team     | 5pm Thursday    |
| Meeting with previous group members to discuss some problems they had and to discuss some of their design choices   | Michael/Maurio | Monday          |
| Team meeting to go over what Maurio and Michael discussed with the previous group members   | Whole team     | Tuesday         |
| Finished Capacitor placement for HVP test circuit(for the Hitachi pulser)   | Michael        | Tuesday         |
| Finished Capacitor placement for Switch Banks   | Maurio         | Tuesday         |
| Talked to Lee about some pcb design issues he was having when importing from multsim to ultiboard   | Michael        | Wednesday       |
| After talking with Dr. Bigelow on Thursday we have redesigned the circuit so we have a new estimated part list outline: 512 Tx517 HVP , 32 Switch banks, 64 tx810 T/R switches  | Whole team     | Thursday        |
| Learning html/outline of senior design website  | Zach           | Thursday/Friday |
| Did research into the Lm96551, TX735 and MAX HVP chips to see if we could use any of these as alternatives to the TX517(none seem to meet the requirements we were looking for) | Zach           | Friday          |

### PLAN FOR COMING WEEK/INDIVIDUAL TASKS

| WHAT   | WHO      | WHEN                        |
|--|----------|-----------------------------|
| Keep in contact with the TI employees Dr. Bigelow suggested we talk to(i.e. ask about the Tx517 and how to implement the transformer/if we need it)      | Jonathan | Own time                    |
| Order the Tx517 EVM  | Jonathan | After talking to TI contact |
| Project website(start getting all the reports posted along with project plan and contact information)  | Zach     | Own time                    |
| Do some research into the power supply board the previous group designed to see if it will meet our new needs(since we changed the HVP we plan on using) | Maurio   | Monday 11am                 |
| Do the pin layout for the TX517  | Michael  | Own time                    |

### PENDING ISSUE

| ISSUE   | RESPONSIBILITY |
|---|----------------|
| Waiting on response from TI contact on part suggestions before we order the TX517 EVM | Jonathan       |

### INDIVIDUAL HOURLY CONTRIBUTION

| <b><u>NAME</u></b>   | <b><u>HOURS</u></b> |
|----------------------|---------------------|
| Zach Bertram         | 7                   |
| Maurio Mckay         | 6                   |
| Michael<br>McFarland | 6.5                 |
| Johnathan<br>Runchey | 4.5                 |