

WEEKLY REPORT

Group name : DEC13-01-Ultrasound Brain Imaging System	Date:4/22/13
Client/Advisor: Dr. Bigelow	
Attendees/Role: Zach Bertram(Webmaster/PCB_design) Maurio Mckay(Communication/Multisim), Michael McFarland(Leader/Multisim), and Jonathan Runchey(Communication/power)	

ACCOMPLISHMENTS FOR PAST WEEK

WHAT	WHO	WHEN
Ordered PCB	Zach	4/16
Started working on Multisim layout for power board	Maurio	Own Time
Meeting with Dr. Bigelow	Whole team	4/18
Started 16 channel Multisim schematic	Michael	Own Time
Put finishing touches on PCB design for manufacturing	Zach	4/14-4/16
Picked up previously ordered parts from Lee (transducer connector, LM96550, LM96570, NI connectors, and sma connectors)	Michael	4/18
Decided on different resistor combinations for the low noise amplifier circuit, so that we can test the performance of different gains.	Jon and Zach	4/21

PLAN FOR COMING WEEK/INDIVIDUAL TASKS

WHAT	WHO	WHEN
Work updating project plan and design document	Whole team	Own Time Meetings: Tuesday and Thursday
Teleconference with National Instruments ultrasound expert with Dr. Bigelow and NI sales rep	Michael	Monday
Finish 16 channel schematic	Michael	Own Time
Order multiple sets of resistors so we can try different gain combinations on our circuit to test performance.	Jon	Monday

PENDING ISSUE

ISSUE	RESPONSIBILITY
Need to look into our Low Noise Amplifier circuit, as there was some miss-communication in the gain needed by each stage. In total we want 70dB. 30dB will come from VGA on NI machine so the LNA circuit needs to provide 40dB worth of gain	Jon and Zach

INDIVIDUAL HOURLY CONTRIBUTION

<u>NAME</u>	<u>HOURS</u>
Zach Bertram	9.5
Maurio Mckay	2
Michael McFarland	15
Jonathan Runchey	5.5