

**Date: 9/22/2014**

<b>Group Number and Name</b>	<b>DEC14-08 / PUMA ROBOT</b>
<b>Client/Advisor</b>	<b>Dr. Greg R. Luecke</b>
<b>Attendees/Role</b>	<b>Alex Grieve / Leader Nhat Pham / Communication Matthew Bogenschultz / Webmaster Zeyu Zhang / Key-idea-keeper Seth Taylor / Power Circuits</b>

## **Past week accomplishments**

What was done, who did it, and when it was done

A: Alex finished writing the library of functions to control the Motenc-Lite cards.  
B: Alex and Nhat mapped out all connections between components in the system so that a central motherboard can be designed.  
C: Nhat modified the PCB design because the vias size was too small due to our traces width.  
D: Matt researched snubbing networks to take care of possible transients from back emf of the motor.

## **Plan for coming week**

What to do, who, and when should it be done

A: Alex will test the C functions that control the Motenc-Lite cards.  
B: Nhat will start working on the central motherboard using NI Ultiboard.  
C: Power supply came in, Seth will begin characterizing the motors at

rated current; will implement design to study the effects of varying voltage

D:Matt will help Seth characterize the motors and order snubber IC's

## Pending Issues

A: Need to design test circuit for power supply

B: Board house rejected our PCB design five days after we submitted it. We lost a week of time because of this.

## Individual hourly Contributions

<u>NAME</u>	<u>Hours this week</u>	<u>HOURS Cumulative</u>
Matt Bogenschultz	10	36
Nhat Pham	6	38
Alex Grieve	10	40
Zeyu Zhang	10	32
Seth Taylor	8	38

## Comments and extended discussions:

Power supply issues remain critical to the controller processes.