

## Hemodynamic Simulator II (P09026)

<b>Status Report (Week 10)</b>		
Progress & Day's Feedback	<p>After the morning presentations, Mark contacted Axis New York for a finalized quote, which would include the Mechatrolink PCI Board, &amp; absolute encoder cable. Also, the updated quote shouldn't include "Sensor Kit". Purchase Requisition forms will be submitted to Dr. Phillips as soon as the priced quote is emailed to the Mark.</p> <p>Jonathan finalized the BOM, created invoices for all mechanical parts that are to be ordered. All mechanical components have been invoiced. Curbell and Northeaster invoices have been turned into Dr. Phillips. Once, waterproofing material is added to the invoice (by Saturday, 11/8/08), McMaster online invoice details will be forwarded to Dr. Phillips for ordering.</p> <p>Liliane developed a LabVIEW program that allows the team to display and store data being recorded from pressure sensors &amp; flow meters. She successfully updated the program to make it compatible with NI-6008US DAQ. Alex presented the Test Plan to Dr. Phillips &amp; Dr. Schwarz, and received adequate feedback.</p> <p>In addition, during the meeting, "quantifying the acceptance of pressure curve" was clarified. This was an important concern that Ed brought up during the Project Review</p>	<b>Friday 11/07/08</b> Gaurav Zirath
Project Objectives	<ul style="list-style-type: none"> <li>● Develop a firm understanding of the individual components design and purpose and also the system as a whole</li> <li>● Weekly meetings with Dr. Schwartz, in order to review the status of the project.</li> <li>● After fully understanding the modular system, the pump would be redesigned in order to better replicate the pumping of the heart, which includes appropriate blood pressure and volume from the heart.</li> <li>● The final product would contain a data acquisition system that would monitor blood pressures, volumes, flow rates at desired locations. In addition, the measured data must be easily accessible to the user.</li> <li>● Furthermore, a computer system would be developed that would allow a user, access to all the parameters of the flow simulator. Hence, providing the user with a better control of the entire unit.</li> </ul>	<b>Friday 9/5/08</b> Gaurav Zirath
Action Items	<ul style="list-style-type: none"> <li>● Finalize McMaster invoice and email it to Dr. Phillips ASAP.</li> <li>● Research for National Instruments Signal Conditioning hardware in order to make use of pressure transducers provided by Dr. Schwarz.</li> <li>● Test Merit pressure transducers &amp; determine what type of hardware will be needed.</li> <li>● Finalize the pump design &amp; control system contract.</li> <li>● Develop a plan for calibrating the data acquisition set-up.</li> </ul>	<b>Friday 11/07/08</b> Gaurav Zirath
Week 7 Schedule	<p><b>Sat - Sun:</b> Finalize McMaster invoice</p> <p><b>Mon-Tue:</b> Study for Finals</p> <p><b>Wed:</b> Study for Finals</p> <p><b>Thu:</b> Final team meeting for MSD I, to discuss plan of action for Thanksgiving break.</p> <p><b>Fri:</b> ----- SEMESTER BREAK STARTS -----</p>	<b>Friday, 11/07/08</b> Gaurav Zirath