

Hemodynamic Simulator II (P09026)

Status Report (Week 4)		
Progress & Day's Feedback	<p>The one major feedback given to all groups was that there were no specific inputs and outputs shown on the System block diagrams. There were generic ones given connecting the systems but no specific inputs were determined. Using medical syringes we were able to test the heart chamber to see that compression of air was capable of moving the left ventricle chamber. Valve motion was also observed through the simple testing. Today we created a meeting agenda for our meeting with Dr. Schwarz at 4 o'clock. We were able to decide on better organizational methods for our team meetings so we become more efficient. We had our preliminary calculations complete so we can now size our cylinder and actuator to be ordered early next week.</p>	<p>Friday 9/26/08 Mark Frisicano</p>
Project Objectives	<p>also the system as a whole</p> <ul style="list-style-type: none"> ● Weekly meetings with Dr. Schwartz, in order to review the status of the project. ● 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. ● 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. ● 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. 	<p>Friday 9/5/08 Gaurav Zirath</p>
Action Items	<ul style="list-style-type: none"> ● Identify types of flow meters, & pressure needed for data acquisition ● Preliminary designs for heart, cylinder stand. ● Develop a contract for specifications and overall project. ● Finalize calculations for the pump design ● Identify an actuator that meets product specs ● Acquire price quotes for actuators from a variety of distributors ● System level design for Electrical System 	<p>Friday 9/26/08 Liliane Pereira Gaurav Zirath</p>
Week 4 Schedule	<p>Sat - Sun: Revise elements for Design Review, Proof of Concept.</p> <p>Mon-Tue: Team Meeting, finalize documents for review, and the final presentation.</p> <p>Wed: Rehearse for Design Review presentation</p> <p>Thu: Confirm meetings with faculty members</p> <p>Fri: Present deliverables, Design Review</p>	<p>Friday, 09/26/08 Gaurav Zirath</p>