Hemodynamic Simulator II (P09026)

Status Report (Week 6)		
Progress & Day's Feedback	Today we contacted actuator suppliers to start the process of ordering an acutator. With our specs for the actuator now almost completely finalized we were able to talk to product engineers at different companies to start comparing products and pricing. Today we found 3 companies that offer actuators with the specs we need. The hardest spec to meet is the velocity value that we require. The electrical team acquired a computer and uploaded the files from the previous team. We were able to test the flow meter using the new computer that was obtained. We also looked into tubing options and availibility. Also Mogli looked at vendors for the globe valve to be used for resistance in our system. Joe worked on developing the system model further. The feedback we received was that the simulation model is imprtant and that we should start to play with components.	**Friday 10/10/08** Mark Frisicano and Alex Baxter
Project Objectives	●Develop a firm understanding of the individual components design and purpose and also the system as a whole ● 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.	**Friday 9/5/08** Gaurav Zirath
Action Items	●Identify exact flow meter (new one? or previous groups?) ●Preliminary designs for heart, cylinder stand. ●Develop a system for mounting the cylinder and actuator in the cart. ●Decide which globe valve we will use. ●Identify an actuator that meets product specs ●Acquire price quotes for actuators from a variety of distributors ●Order the actuator by the End of next week.	**Friday 10/10/08** Mark Frisicano Alex Baxter
Week 7 Schedule	**Sat - Sun**: Finalize actuator choices, complete analysis of globe valve and sensors **Mon-Tue**: Team Meeting **Wed:** Drawings, sensors, mechanical component selection **Thu:** Team Meeting, deliverable preparation **Fri:** Present deliverables, Meet with customer, order actuator	**Friday, 10/10/08** Mark Frisicano