Leg Ergometer for Human Exercise Blood Flow Studies
Progress Report 1, February 1, 2007

Team Members:
Amy Weaver (Team Leader) aweaver@wisc.edu
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Client:
William G. Schrage, Ph.D.
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Advisor:
Paul Thompson pdthompson@wisc.edu

Date: January 26, 2007 to February 1, 2007

Problem Statement:
The goal is to design a leg ergometer to be used by William Schrage in his lab. The test subject will use the ergometer to maintain a constant kicking motion while the femoral artery is imaged using an ultrasound. The information is used to determine blood flow to the leg during exercise.

Project Schedule:
1/26/07 – Choose team and project, meet with client
2/2/07 – Background research, preliminary design ideas, begin work on PDS
2/9/07 – Continue background research, complete and post PDS
2/16/07 – Brainstorm
2/23/07 – Develop design alternatives
3/2/07 – Decide on design alternatives, work on mid-semester presentation and report
3/9/07 – Give mid-semester presentation, finalize and turn in mid-semester report
3/16/07 – Decide on final design
3/23/07 – 4/13/07 – Work on final design
4/20/07 - Perform tests on final design, determine and make adjustments
4/27/07 – Finalize design and final presentation, begin work on final paper
5/4/07 – Give final poster presentation, finalize and turn in paper
5/11/07 – Final meeting with advisor

Last Week’s Goals:
• Choose project
• Determine team roles
• Begin background research
• Meet with client
Summary of Team Accomplishments:
• All met on the first day of class to decide on team roles.
• All began doing background research
• Cali, Lacey, and Amy met with the client on Jan. 31 at 9:45am.

Summary of Individual Accomplishments:
• Lacey set up the meeting with our client.
• Amy wrote the progress report.

Upcoming Week’s Team Goals:
• Continue research, read the article recommended by the client
• Begin brainstorming preliminary design ideas
• Begin work on website
• Begin work on PDS

Difficulties:
We have had some difficulty with the time of the BSAC meetings. Cali, or BSAC representative has class during the scheduled time so we are probably going to have to switch team roles.

Activities:
Amy
  team meeting 1 hr
  client meeting 1 hr
  background research 0.5 hr
  progress report 1 hr
Lacey
  team meeting 1 hr
  Client meeting 1 hr
  background research 0.5 hr
Calista
  team meeting 1 hr
  client meeting 1 hr
  background research 0.5 hr
Hyungjin
  team meeting 1 hr
  background research 0.5 hr

Team Total Hours for this week: 10
Cumulative Team Hours to date: 10