Team Members:
Amy Weaver (Team Leader)   aweaver@wisc.edu
Calista Roen (Communicator)   roen@wisc.edu
Lacey Halfen (BSAC)   halfen@wisc.edu
Hyungjin Kim (BWIG)   kim22@wisc.edu

Client:
William G. Schrage, Ph.D.
Dept. of Kinesiology
wschrage@education.wisc.edu

Advisor:
Paul Thompson
pdthompson@wisc.edu

Date: March 13, 2007 to March 29, 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:
• Order one-way clutch and viscous dampener
• Decide on sensors
• Design frame
Summary of Team Accomplishments:
- All contacted viscous dampener companies
- All determined the torque needed

Summary of Individual Accomplishments:
- Amy wrote the progress report
- Hyungjin updated the website
- Cali contacted companies regarding purchasing devices and determined what model number of clutch is needed.
- Amy and Cali contacted the client with questions regarding his needs for the sensors and budget
- Lacey continued trying to contact the company from whom we are getting the one way clutch.

Upcoming Week’s Team Goals:
- Order one-way clutch and viscous dampener
- Decide on sensors
- Buy seat
- Research belt friction as a possible alternative to a viscous dampener

Difficulties:
We are concerned that the viscous dampener may not provide the needed power so we are looking into alternative devices.

Activities:
Amy
- team meeting 2.0 hr
- emailing team and client 1.0 hr
- progress report 0.5 hr

Lacey
- team meeting 2.0 hr
- contacting companies 1.0 hr

Calista
- team meeting 2.0 hr
- emailing team and client 1.0 hr
- contacting companies 0.5 hr

Hyungjin
- team meeting 2.0 hr
- updating website 0.5 hr

Team Total Hours for this week: 12.5
Cumulative Team Hours to date: 137