

Testing System for Pressure Sensitive Cardiovascular Catheter

Client: Colette Wagner
Nancy Sweitzer, M.D., Ph.D.

Team Members: Danielle Ebben, team leader
Anthony Wampole, communications
Erik Yusko, BWIG
Anita Zarebi, BSAC

Date: *Friday, Sept. 8th to Thursday, Sept. 14th*

Problem Statement:

In order to accurately measure internal blood pressures, a properly calibrated pressure sensitive cardiovascular catheter may be used. The current techniques for calibrating the catheter are unreliable, which causes concern about the validity of the test results. The goal of the project is to devise a testing system which more reliably calibrates and verifies the accuracy of the catheter in both atmospheric tests and tests which simulate internal bodily conditions.

Last Week's Team Goals:

- Assemble team, choose a project, and assign team roles.
- Send list of team roles to advisor.
- Contact client and set up a meeting time.
- Meet with client.
- Begin research.

Individual Goals:

Danielle: Contact client and team members to set up meeting, research
Tony: E-mail client with contact info, research
Erik: Begin working on website, research
Anita: Find out time of BSAC meetings, research

Summary of Accomplishments:

- The team met, exchanged contact information, and assigned team roles.
- Met with client to discuss project, received material to review.

This Week's Goals:

- Continue researching catheters and pressure sensors.
- Begin working on PDS.
- Start brainstorming design ideas.

Project Difficulties: none

Activities:

Team: Met with client to discuss project. 1.5 hours
Danielle: Contacted client, progress report, notebook, read handouts. 4.5 hours

Tony: E-mailed client with contact info.
 Erik: Notebook
 Anita: Research.

2 hours
 2.5 hours
 2 hours

Running Total

<i>Name</i>	<i>Hours</i>
Danielle Ebben	4.5
Anthony Wampole	2
Erik Yusko	2.5
Anita Zarebi	2
Team total	11

Project Timeline:

<i>Week starting:</i>	<i>Accomplishment/Goal</i>	<i>Completed</i>
Sept. 8 th , 2006	Assemble team, exchange contact info, establish roles	✓
	Meet with client	✓
	Begin researching topic	✓
Sept. 15 th , 2006	Continue research	
	start PDS draft	
	Brainstorm design ideas	
Sept. 22 nd , 2006	Finish PDS	
	Brainstorm	
Oct. 6 th , 2006	Choose three design alternatives	
	Complete rough draft of midsemester report for peer review	
Oct. 13 th , 2006	Work on midsemester presentation	
	Continue work on midsemester report	
Oct. 20 th , 2006	Give midsemester presentation	
	Hand in midsemester report and notebooks	
Oct. 27 th , 2006	Choose design	
	Gather materials and begin building prototype	
Nov. 3 rd , 2006	Work on prototype	
Nov. 10 th , 2006	Work on prototype	
Nov. 17 th , 2006	Work on prototype	
	Begin testing prototype	
Nov. 24 th , 2006	Finish building prototype	
	Prepare for final presentation	
	Begin final report	
Dec. 8 th , 2006	Give final presentation	
Dec. 13 th , 2006	Hand in final paper and notebooks	
	Meet with advisor	

Expenses: none