

Development of an ultrasound probe holder for arterial function testing (Probe Holder)

Client: James H. Stein, MD

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Team: Leon Corbeille (BWIG)

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Lein Ma (BSAC)

Progress Report for Week 2: January 30 – February 5

Problem Statement:

To aid in the ultrasonography of arterial reactivity, a simple, stable, adjustable probe holder is needed. The stabilization provided by such a holder could potentially probe imaging quality and diagnostic effectiveness.

Last Week's Goals:

- Establish meeting time for project briefing
- Begin design brainstorm
- Identify competing devices and potential IP issues
- Establish design specification criteria

Summary of Accomplishments

- First Client Meeting Arranged for Feb. 6, 2009 at 8:00 am at hospital
- The team as a whole began background research with specific emphases in atherosclerosis and ultrasonography. Preliminary searches for related patents were conducted.
 - This research will be able to be more refined after the initial meeting
- A rough draft of the product design specifications (PDS) was made. Intent is to serve as a basis for discussion and development in the first meeting

This Week's Goals

- Begin design brainstorm. Identify potential unique solutions to the problem
 - Things to address: Configurations, Materials, Dimensions
- Search for competition and possible intellectual property issues
- Refine PDS

Project Difficulties:

None to report

Team Activities

Members	Activity	Time Spent	Total
Team	Advisor Meeting, PDS Drafting, Background Research Session	2.00 hr.	3.00 hr
Lein	BSAC Meeting, Background Research	2.00 hr.	2.00 hr.
Leon	Background Research	1.00 hr.	1.00 hr.
Peter	Progress Report, Physiology Research	1.50 hr.	1.50 hr.
Neal			

Project Timeline

Task	Jan.		February				March				April				May	
	23	30	6	13	20	27	6	13	20	27	3	10	17	24	1	8
Project Development																
Brainstorm/Design Development																
Finalize Design																
Prototyping																
Deliverables																
Progress Reports																
Mid-semester Paper																
Mid-semester Presentation																
Final Paper																
Final Poster																
Meetings																
Client																
Advisor																
Website																

Budget/Expenses

No expenses incurred