

Progress Report 03

Team: Physiologic Metronome (Group 6)

Team Members:

Ben Fleming, *Communicator*
Cole Drifka, *BWIG*
Jeff Theisen, *BSAC*
Adam Pala, *Team Leader*

Week: September 25, 2009 – October 1, 2009 (Week 4)

Client: Dr. Bill Fahl

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Advisor: Dr. Paul Thompson

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Problem Statement

The purpose of this design project is to develop a metronome device which will maintain a constant, adjustable tempo for the practicing musician. A key feature that the client requires is that the device's tempo-maintaining mechanism be inaudible. Such a feature allows the musician to practice and improve musical performance using a more intuitive approach—one that does not distract the musician while playing music (i.e. audible ticks, as used in conventional metronomes).

Goals from Last Week

- To begin working on the midsemester report (i.e. dividing up the parts between group members)
- To finalize the design alternatives and assess their relative utility, practicality, and effective application by using a design matrix

Accomplishments

- The team met with the client on Friday September 25, 2009 at 12:15 PM to discuss the Product Design Specifications (PDS) document and to give a status update on the design project
- The team met with the advisor on Friday September 25, 2009 at approximately 1:00 PM to discuss the Design Specifications (PDS) document and to give a status update on the design project
- The group established four criteria (user interface with the device, casing, tactile interface, and attachment location of the device on the body) upon which to focus its design-alternatives research

Goals for This Week

- To continue working on the midsemester report
- To finalize the design alternatives and assess their relative utility, practicality, and effective application by using a design matrix (to be done as a group)

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Difficulties

- Midterm madness (this week)!!!
- The midsemester presentation is in two weeks

Team Contributions

<i>Team Member</i>	<i>Task(s) Accomplished</i>	<i>Time Spent (Hours)</i>	<i>Cumulative Time Spent (Hours)</i>
Ben Fleming	Conducted research regarding the design alternatives (i.e. components of the design)	2.0	6.0
Cole Drifka	Conducted research regarding the design alternatives (i.e. components of the design)	2.0	6.0
Jeff Theisen	Conducted research regarding the design alternatives (i.e. components of the design)	2.0	6.0
Adam Pala	Conducted research regarding the design alternatives (i.e. components of the design)	2.0	6.0

Tentative Project Timeline

		<i>September</i>			<i>October</i>					<i>November</i>			<i>December</i>	
		11	18	25	2	9	16	23	30	6	13	20	4	11
<i>Product Research and Development</i>	Preliminary Research													
	Brainstorm													
	Decision Matrix													
	Final Design													
	Building of Prototype													
	Testing of Prototype													
<i>Due</i>	PDS													
	Presentations													
	Reports						21							

Current Expenses

- (None)