

Olfactory Conditioning Apparatus for Fruit Flies

Week 2 – February 6 to February 11, 2009

Team Members: Rob Bjerregaard – Team Leader
Graham Bousley – Communicator
Chuck Donaldson – BSAC
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Problem Statement:

The aim of this project is to improve or completely re-design a device that is currently used to test fruit flies' olfactory sense, memory, and ability to learn. The current device is producing some inaccurate results because the fruit flies experience changes in air pressure and airflow. Airflow and pressure change need to be kept at a minimum while odors are introduced and cleared from the device.

Restatement of Last Week's Goals:

The team's goals last week were to write the PDS, set up a weekly or biweekly meeting time with the client, and to further develop the design ideas.

Summary of Accomplishments:

- Completed a draft of the PDS
- The team met to refine design ideas
- Website is up to date

Team Goals:

- Set up weekly or biweekly meeting time with client
- Run tests on current model
- Begin finalizing design dimensions

Activities:

Rob	2.9.2009	Team Meeting – PDS	1hr 15 min	2 hr 15 min
	2.11.2009	Preliminary Solidworks Drawing	1hr	
Graham	2.9.2009	Team Meeting – PDS	1hr 15 min	1 hr 15 min
Chuck	2.9.2009	Team Meeting – PDS	1hr 15 min	1 hr 15 min
Scott	2.7.2009	Set up Website	1hr 30 min	2 hr 45 min
	2.9.2009	Team Meeting – PDS	1hr 15 min	

Difficulties:

Contacting the client has been difficult, so ideas have not been finalized yet.

Project Timeline:

	February				March				April				
Tasks	4	11	18	25	4	11	18	25	1	8	15	22	29
Project research	█	█	█	█	█	█	█	█					
Brainstorming	█	█	█	█	█	█	█	█					
PDS		█	█	█	█	█	█	█					
Prototype design				█	█	█	█	█					
Prototype building						█	█	█	█	█			
Actual device design						█	█	█	█	█			
Ordering							█	█	█	█	█		
Expected shipping								█	█	█	█		
Device manufacturing											█	█	█
Testing											█	█	█
Re-designing											█	█	█
Re-testing												█	█
Presentation					█								█
Progress report	█	█	█	█	█	█	█	█	█	█	█	█	█
Website	█	█	█	█	█	█	█	█	█	█	█	█	█

Expenses:

Currently there are no expenses.