

Canine Stereotactic Head Frame System – Group 8
December 5 – December 11, 2008
Progress Report 13

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Team Members: Lein Ma (Team Leader)
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Ali Johnson (BWIG)
Kim Kamer (BSAC)

Problem Statement:

In order to treat tumors in canines' head, the subject must be anesthetized and placed in the exact same position for every CT scan and radiation therapy in order to ensure that the tumor receives the correct dosage each time while minimizing harmful radiation to healthy tissue. While several devices are available for head immobilization, they are mostly invasive. The goal of this project is to develop a non-invasive stereotactic head frame to immobilize canines' head during a CT scan and radiation procedure. The device should also keep the canine's mouth open to allow access to the sinuses and jaws while providing enough room for an endotracheal tube to pass. The device should be adjustable to all sizes of canines and reusable.

Last Week's Goals:

- Give the final presentation
- Work on, finalize, and turn in final report
- Update and turn in design notebooks
- Update website
- Turn in evaluations
- Final meeting with advisor

Summary of Accomplishments:

- Gave final presentation
- Finished and turned in final report
- Completed evaluations
- Turned in notebooks
- Contacted client to determine what to do with model and poster
- Updated website

Next Week's Goals:

- Have a final meeting with advisor
- Attend meeting to discuss design course
- Return dental mold to client

Project Difficulties:

There were no difficulties this week

Activities:

The whole team met for 5.0 hours to give the final presentation and write the final report

Lein: 2.0 hour, updating design notebook, progress report, obtaining poster, evaluations

Leon: 2.0 hour, communication, updating design notebook, evaluations

Ali: 2.0 hour, updating website, updating design notebook, evaluations

Kim: 2.0 hour, updating design notebook, evaluations

Team total hours for the week: 28.0 hours

Cumulative team hours: 234.0 hours

Expenses:

Date	Item	Product Number	Supplier	Price
11/3/2008	DragonPlate Carbon Fiber *SAMPLE PACK "A" [4]* (VG~VMw/A~.025"~1/32")		Dragon Plate	\$15.00
			Total	\$15.00

Project Timeline:

Tasks	September				October					November				December		
Project Development	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	
Brainstorming/ Design Development	█	█	█	█	█											
Finalize Design					█	█	█	█								
Construction of prototype								█	█	█	█	█				
Testing											█	█	█			
Finalizing prototype													█	█		
Deliverables																
Progress Reports	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Mid-semester Presentation					█	█	█									
Mid-semester Paper						█	█	█								
Final Presentation												█	█	█		
Final Paper													█	█	█	
Meetings																
Advisor	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Client			█		█	█		█		█						
Website																
		█	█	█	█	█	█	█	█	█	█	█	█	█	█	