

Physical 3D larynx model with moving parts

October 9th – 16th. 2008

Client: Sherri K. Zelazny

Team Members: Rexxi Prasasya (Leader)

Tu Hoang Anh Mai (Communicator)

Karen Chen (BSAC)

Jason Tham (BWIG)

Problem Statement: The goal of this project is to continue the development of a physical 3D laryngeal model, with moving laryngeal cartilage, bones, membranes, and muscles. We would like to demonstrate nerve-muscle action and interaction in the larynx for voice production. The model is to be used as a patient educational tool for improved understanding of the laryngeal mechanism. It will also be used to plan treatment based on diagnosis of voice, airway and/or swallowing disorder. This semester, we will design a prototype that accurately demonstrates healthy laryngeal muscle movements. In the subsequent semester, we would like to introduce several laryngeal disorders into the model.

Last Week's Goals:

- Meet with our client to argue our needs for a new model as well as reviewing the PDS
- Purchase a new model or purchase parts to be implemented in the current model
- Develop power point presentation
- Rehearse the midsemester presentation

Summary of Accomplishments:

- Our proposal for the new model was approved by our client
- Ordered the new model, the model is expected to arrive early next week
- Developed power point presentation
- Rehearsed power point presentation

This Week's Goals:

- Start prototyping on the new model
- Order additional parts as needed

Project Difficulties:

- We are currently waiting for the new model to arrive

Activities:

<u>Date</u>	<u>Person/Group</u>	<u>Activity</u>	<u>Time Spent</u>
10.10.2008	Team	Meeting with client – discussed the need for a new model	1.00 hr
-----	Rexxi	Developed power point slides	1.00 hr
-----	Chou	Developed power point slides	1.00 hr
-----	Karen	Developed power point slides; Drew images for the power point; Developed presentation script	2.50 hr
-----	Jason	Developed power point slide	1.00 hr
10.16.2008	Team	Power point editing; Presentation practice	1.50 hr

Project Timeline:

Week Begins	8-Sep	15-Sep	22-Sep	28-Sep	6-Oct	13-Oct	20-Oct	26-Oct	3-Nov	10-Nov	17-Nov	24-Nov	1-Dec
Task													
Research													
Brainstorming													
Initial design													
Prototyping													
Testing													
Final Design													
Deliverables													
Progress report													
Midsemester report													
Midsemester PPT													
PDS													
Final Presentation													
Final Report													