

Blinking Orbital Prosthesis

Week 11- March 28-April 3, 2008

Team Members: Hallie Kreitlow – *Team Leader*
Allison McArton – *Communicator*
Ryan Kimmel – *BSAC*
Joel Gaston– *BWIG*

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Problem Statement

The focus of this project is to design a blinking orbital prosthesis. When an individual loses an eye due to disease or injury, an orbital prosthesis can be used to increase the person's quality of life and allow them to look whole again. Currently, orbital prostheses do not blink or move and few attempts have been made to make them do so. Our goal as a team is to spark more interest in this study by designing and fabricating a patient model simulator with prosthesis that blinks.

Last Week's Goals

For this week, the team hopes to determine all of the materials that they need. They will begin to discuss how to test each individual component of the design that can be completed before the finished product.

Last Week's Events

03.28.08	Team: Met during class.	1.50h
03.28.08	Hallie: Obtained glasses.	
04.02.08	Hallie: Looked into materials to purchase.	0.75h
04.03.08	Allison: Researched springs.	1.00h
03.29.08	Ryan: Obtained batteries	
04.03.08	Ryan: Researched wiring	1.00h
04.02.08	Joel: Continued work on scaling issues	1.50h

04.02.08	Team: Received materials, discussed materials.	0.50h
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Summary of Accomplishment

The team has begun to acquire some materials to begin fabrication. They have placed an order for cylindrical rods. They have discussed how the materials are going to come and work together.

Statement of Team Goals

This week, the team hopes to purchase all of the materials they will need and begin fabrication. They want to begin revision on their paper and start thinking about the final poster.

Individual Goals

Hallie	Develop testing methods, send out progress report.
Allison	Develop testing methods.
Ryan	Develop testing methods.
Joel	Develop testing methods, complete calculations on magnet, update website.

Difficulties

The biggest difficulty is still determining the strength of the solenoid needed to push back the magnet. Another difficulty will be figuring out the sizing on certain materials being put into the cavity.

Project Timeline

	January-					February-					March-					April-								
Tasks	2	3	0	0	0	1	1	1	2	2	0	0	1	1	2	2	0	0	0	2	2	0	0	0
	5	1	1	6	8	3	5	9	2	9	6	7	1	4	5	8	2	4	9					
Project Research	█	█	█		█	█	█	█	█															
Brainstorming	█	█	█	█	█	█	█	█	█															
Prototype Design									█	█	█													
Prototype Building																							█	
Testing																							█	
Re-designing																								
Re-testing																								
Meeting with Client							█					█			█			█						
Group Meeting	█	█	█	█	█	█	█	█	█	█	█		█	█	█	█	█	█	█	█	█	█	█	█
Presentation												█												

Expenses

There are no expenses to report so far.