

Right Angle Screwdriver

Week 4 - September 25 to October 1, 2009

Team Members: Scott Carpenter - Team Leader
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Problem Statement:

The aim of this project is to design a right angle screwdriver for use in surgery for facial fractures. The current procedure attaches titanium plates to the mandible by making a small incision on the exterior of the face, which makes it difficult to position the screwdriver effectively and leaves a scar. The right angle screwdriver must be able to fit through a standard incision and provide enough torque to tighten the screws down on the plate.

Restatement of Last Week's Goals:

The team's goals this past week has been to continue research. The team also needs to make contact and set up another appointment to discuss details.

Summary of Accomplishments:

- Research on casing material and pricing
- Website established

Team Goals:

- Start prototype design
- Further research materials

Activities:

Scott	9/25/2009	Advisor Meeting	1 hr	1 hr
Charles	9/25/2009	Advisor Meeting	1 hr	1 hr
John	9/25/2009	Advisor Meeting	1 hr	1 hr
Nathan	9/25/2009	Advisor Meeting	1 hr	3 hr
	9/27/2009	Work on website, research on casing material	1 hr	

Difficulties:

Difficult to find gears small enough to make design ideas feasible.

Project Timeline:

	September				October					November				December		
Tasks	4	11	18	25	2	9	16	23	30	6	13	20	27	4		
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 none