Dual Handheld and video otoscopy unit

Date: 2/7/2025

Client: Dr. Lara Tomich & Dr. Amy Nechelason

Advisor: Professor Paul Campagnola

Team:

Sam Tan — Leader stan68@wisc.edu

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Problem statement:

The current designs of handheld otoscopes for animal practice do not allow video transfer to a distant view compared to a video otoscope, which is practiced differently in simulations. The goal is to design a handheld otoscope with video capabilities to allow student-performed examinations to be visualized to the faculty for assessments.

Brief status update

Reports to journal, design modifications

Difficulties / advice requests

N/A

Current design:

Optical Fiber design

Materials and expenses

To be updated once some order receipt and amazon information is finalized on our end.

Item	Description	Manufac- turer	Mft Pt#	Vendo r	Vendor Cat#	Date	#	Cost Each	Total	Link
Electrical Com	ponent	100.0.	1	-	1000			1-000		
Camera Comp	onents				-	•		-	-	•
MakerSpace H	lardwares + 3D Prin	ts								
Current Total								Total		

Major team goals for the next week

1. Catch up on progress and consultation with goals set up

Next week's individual goals

- Sam
 - o Design modifications
- Aaron
 - Design modifications
- Bobby
 - Journal submission considerations
- Andy
 - o Journal submission considerations

Timeline

Task	Ji	an		Feb March				April						
	24	31	7	14	21	28	7	14	21	28	4	11	18	25
Project R&D	Х	Х	Х											

Empathize	Х	Х	Х						
Background	Х								
Prototyping	Х								
Testings									
Deliverables									
Progress Reports	Х	Х	Х						
PDS	Х	Х	Х						
Prelim presentation									
Final Poster									
Meetings									
Client		Х							
Advisor	Х	Х	Х						
Website									
Update	Х	Х	Х						

Filled boxes = projected timeline **X** = task was worked on or completed

Previous week's goals and accomplishments

- Sam previous goal
 - o Design modifications
- Bobby previous goal
 - o Design modifications
- Aaron previous goal
 - o Journal Submission research
- Andy previous goal
 - o Journal Submission research
- Team previous goal
 - N/A

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Sam					
Bobby					
Aaron					
Andy					