Dual Handheld and video otoscopy unit

Date: 1/31/2025

Client: Dr. Lara Tomich & Dr. Amy Nechelason Advisor: Professor Paul Campagnola Team:

Sam Tan — Leader

Aaron Marattil — Communicator

Haoming (Bobby) Fang — BWIG

Andy Slayton — BPAG

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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.

ltem	Description	Manufac- turer	Mft Pt#	Vendo r	Vendor Cat#	Date	1#	Cost Each	Total	Link
Electrical Com	ponent	-	-		-					
Camera Comp	onents						_			
MakerSpace H	ardwares + 3D Print	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
 - Design modifications
- Aaron
 - Design modifications
- Bobby
 - \circ Journal submission considerations
- Andy
 - Journal submission considerations

Timeline

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

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

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

Previous week's goals and accomplishments

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

Activities

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