

Dual Handheld and video otoscopy unit

Date: 3/21/2025

Client: Dr. Lara Tomich & Dr. Amy Nechelason

Advisor: Professor Paul Campagnola

Team:

Sam Tan — Leader

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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 Component										
Camera Components										
MakerSpace Hardwares + 3D Prints										
Current Total								Total		

Major team goals for the next week

- Catch up on progress and consultation with goals set up

Next week's individual goals

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

Timeline

Task	Jan		Feb				March				April			
	24	31	7	14	21	28	7	14	21	28	4	11	18	25
Project R&D	x	x	x	x	x	x	x	x	x	/	x			

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

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					

