Dual Handheld and video otoscopy unit

Date: 2/28/2025

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#	Vendor	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

1. 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								

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