Dual Handheld and video otoscopy unit

Date: 1/24/2025

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

Sam Tan — Leader stan68@wisc.edu

Aaron Marattil — Communicator marattil@wisc.edu

Haoming (Bobby) Fang — BWIG hfang45@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

- Catch up on progress from last semester, goals set up

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. N/A

Next week's individual goals

- Sam
  - Catch up and set up goals
- Aaron
  - Catch up and set up goals
- Bobby
  - Catch up and set up goals
- Andy
  - Catch up and set up goals

Timeline

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

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

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

Previous week's goals and accomplishments

- Sam previous goal
  - N/A
- Bobby previous goal
  - N/A
- Aaron previous goal
  - N/A
- Andy previous goal
  - N/A
- Team previous goal
  - N/A

Activities

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