Dual Handheld and video otoscopy unit

Date: 9/20/2024

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

Sam Tan — Leader stan68@wisc.edu

Aaron Marattil — Communicator marattil@wisc.edu

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Andy Slayton — BPAG aslayton@wisc.edu

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

- Met with client and advisor to discuss about priorities and expectation in the project.

Difficulties / advice requests

- N/A

Current design:

- Old design

Materials and expenses

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. Material Researches and camera options.
2. LED options and redesign of old prototype

Next week's individual goals

- Sam
  - Electronic component research, re-design of speculum.
- Aaron
  -
- Bobby
  -
- Andy
  -

Timeline

Task	September			October				November					December	
	13	20	27	4	11	18	25	1	8	15	22	25	6	13
Project R&D														
Empathize														
Background	X													
Prototyping														

Testings														
Deliverables														
Progress Reports	X	X	X											
PDS		X												
Prelim presentation														
Final Poster														
Meetings														
Client														
Advisor	X	X												
Website	X													
Update	X													

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

Previous week's goals and accomplishments

- Sam previous goal
    - Anatomy research
- Bobby previous goal
    -
- Aaron previous goal
    -
- Andy previous goal
    -

- Team previous goal 6
    - None

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Sam	9/17/24	Small group brainstorming and research	1	1	1
Bobby					
Aaron					
Andy					