

# Dual Handheld and video otoscopy unit

Date: 11/15/2024

Client: Dr. Lara Tomich & Dr. Amy Nechelason

Advisor: Professor Paul Campagnola

Team:

Sam Tan — Leader

[stan68@wisc.edu](mailto:stan68@wisc.edu)

Aaron Marattil — Communicator

[marattil@wisc.edu](mailto:marattil@wisc.edu)

Haoming (Bobby) Fang — BWIG

[hfang45@wisc.edu](mailto:hfang45@wisc.edu)

Andy Slayton — BPAG

[aslayton@wisc.edu](mailto: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

- Material orders and fabrication

## Difficulties / advice requests

- N/A

## Current design:

- Optical Fiber design



Empathize															
Background	X														
Prototyping															
Testings															
<b>Deliverables</b>															
Progress Reports	X	X	X	X		X	X	X	X	X	X				
PDS		X	X	X		X	X	X	X	X	X				
Prelim presentation				X											
Final Poster															
<b>Meetings</b>															
Client															
Advisor	X	X	X	X		X	X	X	X	X	X				
<b>Website</b>	X														
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
  - 3D modeling of the first prototype and find dimensions
- Bobby previous goal
  - Tested the focal length
- Aaron previous goal
  -
- Andy previous goal
  -
- Team previous goal
  -

## Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Sam		3D modelings, dimensions measuring	2		16
Bobby		Focal length testings	2		14.5
Aaron					
Andy					

