Title: Progress Report 1

Date: 01/29/2025

Client: Dr. Andrew Ross Advisor: Dr. Megan McClean

Team:

Student 1: Ana Toscano Student 2: Rini Anand Student 3: Gabriela Cecon Student 4: Sofia Yeates-Delahoz

Problem statement

Design and develop a prototype that securely supports, stabilizes, and precisely maneuvers needles during awkward, image-guided minimally invasive radiology procedures to enhance ergonomics, reduce operator fatigue, and improve accuracy and patient outcomes

Brief status update

Preliminary research in progress.

Difficulties / advice requests

None to report.

Current design

This project is still in the research phase. There is no current prototype or design as of this week.

Materials and expenses

Currently, there are no expenses as the project is still in the preliminary research phase.

Item	Description		Mft Pt#	l Vendor	Vendor Cat#	Date	l#	Cost Each	Total	Link
Category 1										
									\$0.00	
									\$0.00	
Category 2		-		-	-			_	-	

					\$0.00	
				TOTAL:	\$0.00	

Major team goals for the next week

- 1. Finish initial research
- 2. Initial Client Meeting to determine expectations of the client and answer any questions that might have come up during research
- 3. If possible, become familiar with the instrumentation our client works with

Next week's individual goals

- Ana Toscano
 - Meet with the client
 - Send notebook check 1
 - Brainstorm design concepts
 - Start PDS
- Rini Anand
 - Set up client meeting
 - o Email Progress Report
 - o Brainstorm design concepts
 - Work on Preliminary Design Specifications
- Gabriela Cecon
 - Meet with the client and ask questions
 - o Do additional research
 - o Brainstorm design ideas
- Sofia Yeates-Delahoz:
 - Update the project website
 - o Continue preliminary research
 - Meet with the client to gain familiarity with the project
 - o Brainstorm preliminary design ideas

Timeline

Task	Jan		F	eb		March				Ap	May				
Task	30	6	13	20	27	6	13	20	27	3	10	17	24	1	8
Project R&D															
Empathize	Х														
Background															
Prototyping															
Testings															
Deliverables															

Progress Reports	Χ							
Prelim presentation								
Final Poster								
Meetings								
Client								
Advisor	Х							
Website								
Update	Х							

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Ana Toscano	1/28 - 1/30	Preliminary research on competing designs and	4	4	4
Rini Anand	1/28 1/29	Initial research (recommended articles and patents/ market analysis)	4	4	4
Sofia Yeates-Delahoz	1/28 - 1/30	Conducted preliminary research on competing designs that are on the market.	3	3	3
Gabriela Cecon	1/28 - 1/30	Preliminary research on competing designs and existing methods	3	3	3