# **Title: Progress Report 2**

Date: 02/06/2025

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**

Client meeting completed and Product Design Specifications completed.

# 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.

ltem	Description	Mft Pt#	Vendor	Vendor Cat#	Date	#	Cost Each	Total	Link
Category 1									
								\$0.00	
								\$0.00	
Category 2									

					\$0.00	
					\$0.00	
				TOTAL:	\$0.00	

#### Major team goals for the next week

- 1. Create design matrix
- 2. Organize to observe procedure with the client
- 3. Continue to add research entries to lab notebook

## Next week's individual goals

- Ana Toscano
  - Participate in brainstorming sessions
  - Create 3 prototype schematics
  - Perform material research for design matrix
- Rini Anand
  - Brainstorm 3 prototype designs
  - Discuss individual designs with team
  - Work on Design Matrix and criteria
- Gabriela Cecon
  - Brainstorm design ideas
  - Design different models for the design matrix
- Sofia Yeates-Delahoz:
  - Brainstorm prototype designs
  - Meet with team and discuss individual designs
  - Create design matrix
  - Brainstorm design criteria

#### Timeline

Teek	Jan		F	eb		March					A	Мау			
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	Х	Х													
Prelim presentation															
Final Poster															

Meetings									
Client		Х							
Advisor	Х	Х							
Website									
Update	Х								

#### **Activities**

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Ana Toscano	1/30 - 2/06	- Worked on Product Design Specifications - Performed relevant research for PDS - Mediated client meeting	3	3	7
Rini Anand	1/30 - 2/06	<ul> <li>Worked on Product Design Specifications and researched relevant sources</li> <li>Communicated with the client for the operation schedule &amp; budget</li> <li>Created entries for team/client/research meetings</li> </ul>	3	3	7
Sofia Yeates-Delahoz	1/30 - 2/06	<ul> <li>Worked on Product Design Specifications</li> <li>Performed research on applicable regulatory standards and patents for the PDS</li> <li>Attended client meeting and took notes</li> <li>Created notebook entry for previous advisor meeting</li> </ul>	3.5	3.5	6.5
Gabriela Cecon	1/30 - 2/06	<ul> <li>Conducted additional research</li> <li>Worked on the Product Design</li> <li>Specifications</li> <li>Updated the project goals based on</li> <li>information from the client meeting</li> </ul>	3	3	6