- **Title**: Smart Walker, BME 400

- **Date**: 9/20/24 - 9/26/24

Last Name	First Name	Role	Email
Nimunkar	Amit	Advisor	ajnimunkar@wisc.edu
Kutschera	Dan	Client	kutschera@att.net
BlomWillis	Nolan	Leader/Communicator	blomwillis@wisc.edu
Schiltz	Eva	BSAC	emschiltz@wisc.edu
Parsons	Jacob	BPAG	jcparsons@wisc.edu
Waldenberger	James	BWIG	jwaldenberge@wisc.edu

- **Problem statement**: In the rehabilitation process of acute strokes or similar conditions, it is necessary for the patient to be able to walk independently so they can safely return home. Our team must design a device that works in conjunction with a standard walker that will measure the speed and distance the patient walks and the pressure applied to the walker.

- **Brief status update**: This week we completed our design matrix for our design and worked to brainstorm design ideas.

- **Difficulties / advice requests**: No difficulties or advice requests for this coming week.

- **Major team goals for the next week**: Create our preliminary presentation as well as look into purchasing materials to start working on design

- **Next week's individual goals**: A concise statement of intended action to continue progress on the project - be specific, i.e. what will you research.

  Eva: Complete assigned sections of preliminary report and presentation.

  Jacob: Complete preliminary presentation and work on the report. Begin to finalize a preliminary purchasing round so sensor testing and prototyping can begin.

  Nolan: Work on preliminary presentation and preliminary report

  James: Present our preliminary ideas to the group and decide on the specific sensors that we'll need to purchase for the project.

Project Goal	Deadline	Assigned	Progress	Completed
Initial meeting with client	9/12	Team	100%	Y
Gather research/project information	9/19	Team	100%	Y
Product Design Specification (PDS)	9/20	Team	100%	Y
Design Matrix	9/27	Team	100%	Y
Preliminary Presentation PDF	10/4	Team	0%	N
Preliminary Report	10/9	Team	0%	N
Order/Gather Materials	10/11	Team	0%	N
Create prototypes, test	11/8	Team	0%	N
Final fabrication	11/20	Team	0%	N
Test and finalize final design	11/27	Team	0%	N
Poster Presentation PDF	12/6	Team	0%	N
Final Report	12/11	Team	0%	N
Final Notebook Team	12/11	Team	0%	N

- **Previous week's goals and accomplishments**:

Team: The team completed design matrices for the distance/speed sensor and the pressure/force sensor.

Eva: Finished design matrices and continued research on pressure sensors

Jacob: Conducted research on specific sensors that could be viable to purchase for the product. Helped team complete design matrixes for sensors.

Nolan: Completed design matrix as well as formulated design ideas for design.

James: Researched specific sensors and started thinking about the circuits that will be made alongside them, created a design matrix to help support the decision for the final sensor.

Activities: a concise accounting of time spent working on the project.

	Eva	**Jacob**	**Nolan**	**James**
Week 1	3 hrs	2 hrs	2 hrs	2 hrs
Week 2	3 hrs	4 hrs	4 hrs	3.5 hrs
Week 3	2.5 hrs	3 hrs	3 hrs	3 hrs