

- **Title:** Smart Walker, BME 400
- **Date:** 9/27/24 - 10/3/24

Last Name	First Name	Role	Email
Nimunkar	Amit	Advisor	ajnimunkar@wisc.edu
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- **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 preliminary presentation
- **Difficulties / advice requests:** No difficulties or advice requests for this coming week.
- **Major team goals for the next week:** Begin purchasing materials for the start of fabrication

- **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: Work on preliminary report and begin ordering sensors.

Jacob: Finish the preliminary report and begin testing with the sensors.

Nolan: Work on ordering pressure sensors and possibly take a trip out to the rehab facility. Also work on preliminary report

James: Work with sensors and microcontroller and get a preliminary circuit and testing done. Work on the preliminary report.

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	100%	Y
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 our preliminary presentation and decided on sensors to purchase.

Eva: finished preliminary presentation and began working on preliminary report.

Jacob: Worked on preliminary presentation and determined what speed sensor to purchase for testing.

Nolan: Completed preliminary presentation as well as finalized which sensors to order

James: Worked on preliminary presentation and looked at microcontrollers and displays that could potentially be used for the project.

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

	<b>Eva</b>	<b>Jacob</b>	<b>Nolan</b>	<b>James</b>
<b>Week 1</b>	3 hrs	2 hrs	2 hrs	2 hrs
<b>Week 2</b>	3 hrs	4 hrs	4 hrs	3.5 hrs
<b>Week 3</b>	2.5 hrs	3 hrs	3 hrs	3 hrs
<b>Week 4</b>	2.5 hrs	3 hrs	2 hrs	3 hrs