

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

- **Date:** 10/4/24 - 10/10/24

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 preliminary report as well as ordered our materials to begin fabrication
- **Difficulties / advice requests:** No difficulties or advice requests for this coming week.
- **Major team goals for the next week:** Begin fabrication of pressure sensors and speed sensors

- **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: Begin working on sensor testing and fabrication.

Jacob: Evaluate if the accelerometer is a viable option, or if it takes too long/has too large of an error.

Nolan: Work on sensor fabrication with the team

James: Diagram load cell circuit and do some calibration.

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	100%	Y
Order/Gather Materials	10/11	Team	75%	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 report and received the shipment of parts ordered

Eva: Finished my portion of the preliminary report and peer and self evaluation.

Jacob: Finished my part of the preliminary report and ordered the first round of materials.

Nolan: Completed preliminary report

James: Finished my part of the preliminary report and researched displays.

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
Week 4	2.5 hrs	3 hrs	2.5 hrs	3 hrs
Week 5	3 hrs	3 hrs	2 hrs	2 hrs