

- **Title:** Preventing Weightlifting Injuries by Barbell Modifications, Weightlifting Injuries, BME301
- **Date:** 2/2/24-2/9/24

Last Name	First Name	Role	Email
Settell	Megan	Advisor	settell@wisc.edu
Gold	Robert	Client	bob.gld@gmail.com
BlomWillis	Nolan	Leader	blomwillis@wisc.edu
Kafar	Kaden	Communicator	kafar@wisc.edu
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Waldenberger	James	BWIG	jwaldenberge@wisc.edu

- **Problem statement:** Over one million weightlifters each year experience weightlifting injuries that put them in the emergency room. Of these one million, 18-46% are reported to be caused by bench pressing a barbell. Our team's task is to create a pitch-able system that increases safety for lifting, specifically bench pressing.
- **Brief status update:** Finished our PDS as a team. Had a team meeting to figure out what our direction and problem statement would be since walking away from our client meeting we did not have that.
- **Difficulties / advice requests:** No difficulties or advice requests for this coming week
- **Current design:**
Still in the brainstorming portion for current design. Will have some options come next week.
- **Materials and expenses:** a concise accounting of the amounts and types of expenses incurred on the project. Use the template provided here:
<http://bmedesign.engr.wisc.edu/course/resources/#bpag>

Item	Description	Manufacturer	Mft Pt#	Vendor	Vendor Cat#	Date	QTY	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:**

Complete the design matrix and nail down a design the team wants to go with.

- **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.

Kaden: I plan on brainstorming and working on the design matrices. This includes trying to come up with fresh new ideas for the design.

Jacob: I plan on contributing to the completion of the design matrix for our preliminary idea, and continue to research current patents and products out there so our device is unique - as of the request of the client.

Nolan: I plan on coming up with design ideas that could be beneficial to the team's design matrix. I also want to look into standards more specifically than I already have.

James: Conclude what design will be being used going forward and make example sketches for next week to show the client.

Project Goal	Deadline	Assigned	Progress	Completed
Initial meeting with client	1/31	Team	100%	Y
Gather research/project information	2/2	Team	100%	Y
Product Design Specification (PDS)	2/8	Team	100%	Y
Design Matrix	2/15	Team		

Order/gather necessary materials	2/18	Team		
Preliminary Presentation PDF	2/26	Team		
Preliminary Report	3/1	Team		
Create prototypes, test	4/22	Team		
Final fabrication	4/22	Team		
Test and finalize final design	4/22	Team		
Poster Presentation PDF	4/22	Team		
Final Report	5/1	Team		
Final Notebook Team	5/1	Team		

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

Team: As a team, the product design specifications first draft was completed.

Kaden: I completed my portion of the PDS and did research on competing designs and their sales costs and designs.

Jacob: I completed a portion of the PDS and did some research on various ways in which speed can be tracked without accelerometers or gyroscopes.

Nolan: I completed my portion of the PDS and did small research on standards as well as a little on patents for motion sensors on google patents.

James: I completed my portion of the PDS and came up with some design ideas for the design matrix.

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

	Kaden	Jacob	Nolan	James
Week 1	2.5hrs	2.5hrs	3hrs	2.5hrs
Week 2	2 hrs	1.5hrs	2hrs	1.5hrs