

# Handicap Accessible Bicycle

**Client:** Ted Elias

**Advisor:** John Puccinelli

**Team:** Morgan Kemp mrkemp@wisc.edu (Team Leader)  
 Tianna Garcia tngarcia@wisc.edu (Communicator)  
 Shelby Mochal smochal2@wisc.edu (BPAG)  
 Emmy Russell eerussell2@wisc.edu (BWIG/BSAC)

**Date:** 1/29/17-2/2/17

## Problem Statement

The current options for a disabled adult to participate in a fun task such as going for a bike ride are very limited in availability and price. The current market also does not provide multiple options to fit the needs of a traumatic brain injury (TBI) patient and their limited mobility. Not only is our client's wife recovering from a TBI, but also a mother who would very much enjoy going for simple bike ride. By creating a new bike "sidecar" custom to the needs and capabilities of the client's wife and with cost of around \$500, more family activities can be a part of our client's life.

## Last Week's Goals

- To brainstorm design ideas and get our welding passes

## Summary of Team Role Accomplishments

- Team Leader, Morgan: Created Weekly agenda, Facilitated team meeting
- Communicator, Tianna: Contacted client/ME team
- BSAC, Emmy: Attended BSAC meeting
- BWIG, Emmy: Updated website with project status and progress report
- BPAG, Shelby:

## Summary of Design Accomplishments

- This week we updated our product design specifications as we researched and brainstormed ideas for making the trailer more accessible and improving its attachment to the bike.

## Activities

Date	Person	Task	Time(hrs)	Weekly Total	Semester Total
1/29/17	Morgan	Created Agenda	.25	1.75	3
1/31/17		Welding Quiz	.5		
2/2/17		Research	1		
1/29/17	Tianna	Welding quiz	0.5		1.5
1/21/17		Contacted ME team	0.25		
1/25/17		Accessory research	1		
12/31/17	Shelby	Welding Quiz	.5	1.5	2.5
12/2/17		Seat Design Research	1		
1/29/17	Emmy	Contacted adaptive bicycle expert	0.25	1.75	3.75
2/1/17		Research	1.5		
1/29/17	Team	Meeting	1	1	3

## Statement of Team Goals

Our goals for next week are to create the design matrix criteria for our seat/accessibility problem and attachment problems.

## Individual Goals

- Morgan – Complete the welding seminar,
- Tianna – Keep in contact with ME team, work on welding quizzes
- Shelby- Continue to work on welding pass
- Emmy- Continue research, keep in contact with Hal, attend welding pass seminar

**Difficulties:** None

## Project Schedule/Timeline:

Task	January		February				March				April				May	
	20	27	3	10	17	24	3	10	17	24	31	7	14	21	28	8
<b>Project R&amp;D</b>																
Background Research	X		X													
Brainstorming			X													
Create 3 Design Ideas																
Create Design Matrix																
Order Parts																
Manufacturing																
<b>Deliverables</b>																
Progress Reports		X	X													
PDS			X													
Midsemester																
Final Design																
Create Poster																
Team Report																
Team Presentation																
Website	X	X	X													
<b>Meetings</b>																
Client		X														
Team	X	X	X													
Advisor		X	X													

**Expenses:** None