

# Meeting Activity Log

15001

## Attendees:

- Adam Podolec: Electrical Engineer / Project Lead
- Megan Ehrhart: Senior Electrical Engineer
- Tyler Leichtenberger: Mechanical Engineer
- Noah Schadt: Mechanical Engineer / Team Facilitator
- Jared Green: Senior Mechanical Engineer
- Geni Giannotti: Biomedical Engineer / Treasurer

Current Meeting	Next Meeting
Location: MSD Area / BAD Lab	Location: MSD Area / BAD Lab
Start Time: 11:00am	Start Time: 11:00am
End Time: 2:00pm	End Time: 2:00pm
Meeting Date: Tuesday 10/28/14	Meeting Date: Thursday 10/30/14

## Old Business Items:

- Action items
- Stage 2 test plans
- Nazareth Visit

## New Business Items:

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## Items Left Outstanding:

- Will need a table of flow down from ER all the way to components (flow chart?)
- Ask Guide about what is expected for an assembly drawing

## Action items – Owners / Deadline:

- ❖ Team Tasks - All
  - Brainstorm and test plan for MSD II
  - Submit individual phase documents to guide with proper labeling
  - Keep track of action items from the review
- ❖ Adam Podolec
  - Prepare MSD II plan template for team to populate
  - Calling the solenoid company
  - Looking into power options
  - Purchasing Solenoid hardware
  - Long term
    - Bio
- ❖ Megan Ehrhart
  - Identify stairs
  - New schematic
  - Layout PCB/SD distance sensing function
  - Long term
    - LED
    - High limit test (distance sensing)
    - Order parts
    - Take a break

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- ❖ Tyler Leichtenberger
  - Design attachment
  - Muscle optimization
  - Increase severity of fishing line risk
  - Long term
    - Color code risk table changes
    - In Air flow test look at flow of air muscle
- ❖ Jared Green
  - PCB Sensors
  - SD card selection
  - Power source
  - Schematic for the PCB
  - MSD II project plan
  - Update Detailed design project plan on a weekly basis
  - Distance sensing
  - Prepare for Nazareth
  - Long term
    -
- ❖ Geni Giannotti
  - Update drawings
  - Update BOM
  - Update Budget
  - Turn in receipts
  - Draft test plan
  - Prepare for Nazareth email
  - Long term
    -
- ❖ Noah Schadt
  - Test plan for strain test / add to prioritized tasks
  - Muscle optimization
  - Consider Permanent Elastic in front
  - Long term
    - Refine foot-lift model / report
    - Notes

## Meeting Notes:

- If we aren't done by week 12 then our guide is concerned a little
- A team member explained their learning style in order to promote team health and optimize role distribution
  - Team decided to bring a whiteboard to promote visual learning during meetings
  - Encouraged member to contact the team facilitator with questions or concepts that they would like to have explained more clearly in a 1 on 1 setting

- A good example of the best kind of learning/teaching style can be found here:  
[http://www.youtube.com/results?search\\_query=eagle+tutorial+jeremy+blum](http://www.youtube.com/results?search_query=eagle+tutorial+jeremy+blum)
- Some questions that were raised included:
  - What is a solenoid and how does it work?
  - How does air pull an air muscle?
  - (Big picture) How does low battery testing and distance sensing relate to the rest of the project?
  - What is a Gerber file and how can it be used?
- Team discussed MSD II brainstorming testing ideas
  - Release time (use slow motion camera)
  - Time of contraction (use slow motion camera)
  - Hold mode (possibly **MSD I**)
  - Heel strike (using LED and slow motion camera)
  - Recording gait data simultaneously with a video
  - 8hr tank life duration test
  - Tile v. Rug test (Possible **MSD I**)
  - Ingress protection test
  - Comfort test survey
  - Brace, extended use comfort test (2-8hrs)
- It was suggested that we ask Nazareth expert about pedometers or a daily step estimate
- It was suggested that we have a SME at RIT for Composite materials if necessary
- **Talk to guide about component housing**
- **Don't overlook attachment!!**
- MechE's and EE's split for efficiency
- MechE's held a brainstorming session for lower foot tension attachment
  - Complete with a Pugh analysis
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Action Items					
Item #	Description	Responsible	Due Date	Close Date	Comments
A001	Consider Permanent Elastic in front	Noah & Tyler	11/11		By DDR
A002	Refine foot-lift model with angles	Noah	11/11		By DDR
A003	Consider not using a quick connect	Noah & Tyler	-		Gate Review
A004	BOM: add columns (vendor/shipping)	Geni	11/11		By DDR (long term)
A005	Look into downsizing electrical side	Megan	11/11		By DDR (long term)
A006	Add music to videos	Noah	-		(optional :)
A007	Color correlation on the M-opt plot	Noah	11/11		Make EGDE clearer
A008	Engineering metric for foot attachment	Geni	11/11		Need to quantify things
A009	Ask Dr. C about compression sleeves	Geni & Jared	11/11		Nazareth clinic
A010	Tweak/update sketched	Geni	11/11		GAD models
A011	Color code the risk table with changes	Tyler	11/11		Expect likelihood changes
A012	Test strain of fishing line	Noah	11/11		Hang weights on the line
A013	Increase severity of fishing line risk	Tyler	11/11		See other strain risk
A014	Move pressure alert priority down	Megan	11/11		On prioritized task list

Issues					
Item #	Description	Responsible	Open Date	Close Date	Comments
I001	The AFO could be slippery with socks	Geni	10/23		Relates to A009

Decisions				
Item #	Description	Contributing Individuals	Decision Date	Comments
D001	Testing comfort with different users	Geni - Tyler	10/23	This is an ongoing resolution
D002	Bring Upper-Lower attachment prototype	Geni - Tyler	10/23	Decided as goal for DDR