

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	Location: BAD Lab
Start Time: 11:00am	Start Time: 12:30pm
End Time: 2:00pm	End Time: 2:00pm
Meeting Date: Thursday 10/23/14	Meeting Date: Monday 10/27/14

Old Business Items:

- Risk Updates

New Business Items:

-

Items Left Outstanding:

-

Action items – Owners / Deadline:

- ❖ Team Tasks - All
 - Submit individual phase documents to guide with proper labeling
 - Keep track of action items from the review
- Adam Podolec
 - Long term
 - Bio
- Megan Ehrhart
 - Order parts?
 - Ongoing
 - Make EDGE magnificent
- Tyler Leichtenberger
 - Increase severity of fishing line risk
 - Research air muscle and design length, diameter & pressure
 - Long term
 - Color code risk table changes
 - In Air flow test look at flow of air muscle
- Jared Green
 - Prepare for Nazareth visit
 - Long term
 -
- Geni Giannotti
 - Prepare for Nazareth visit
 - Work on the budget

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- Long term
 - Email Nazareth contact with question
- Noah Schadt
 - Research air muscle and design length, diameter & pressure
 - Consider Permanent Elastic in front
- Long term
 - Refine foot-lift model / report
 - Notes

Meeting Notes:

- Guide/Customer
 - *Team P15001*
- Have the schematics been reviewed by experts?
 - *Yes*
- What do you mean by specify materials?
 - *Resolved/Clarified*
- Could you make the schematics any smaller ☺
- Are we almost out of pins? What do we have left?
 - *Resolved/Clarified*
- Are there any better Arduinos? Do we need the big development board? (PCB?)
 - *See A005*
- Orifice impedance – might need to throttle the inlet flow
 - *Future consideration*
- Technology behind the sensor?
 - *Discussed – good to understand how it works since it may be helpful later on*
- Millisecond not Megasecond (11.6 days)
- Is the level ground associated with 0.5v? Reference state?
 - *Resolved/Clarified*
- We're loving this, you guys have done great work
- When will you make the decision on PBC? Why?
 - *Clarified/Understood*
- Is there enough memory storage? (pretend you're talking to a MechE)
 - *Clarified*
- Could you save a week's worth of gait data? **The gait technology has applications beyond orthotics**
 - *Not feasible*
- Something like fabric or just cotton could be used for lower foot attachment.
- You need a metric for comfort
 - *See A008*
- Some people wear compression sleeves under AFOs
 - *See A009*
- The AFO could slip over compression sleeves or socks?
 - *See I001*
- Standard pain/comfort scales for pressure there's a name for it - google it
 - *See A008*

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- Conclusions indicate a change in system concepts, where is the change in drawings?
 - *See A010*
- There is a guy coming from Autodesk tomorrow (10/24) about a new fusion program
- Deflection test, what happens if the moment arm is smaller?
 - *Clarified/Resolved*
- Priority and customer need for a tank pressure sensor / developing passive mode?
 - *Customer agreed we could add it in later if necessary see A014*
 - *We may also want to consider a manual holder using string or something*
- MSD II:
 - The first two weeks are regroup
 - After that there are 3 week phases with prototype progress reviews
- Testing with different users
 - *See D001*
- Solid engineering in all other parts, the mushy part is difficult
- When are we going to build this?
- Risks, hopefully the risk list will have reduced likelihood by next phase
- Wash, rinse, repeat engineering in the next phase
- Risks: disagree with the severity of the fishing line risk
 - *See A013*
- We are expected to walk in to the next review with a upper-lower attachment integration prototype
 - *See D002*
 - *Lends itself to bringing it in and demonstrating*
- Customer: You are asking the right questions, and answers seem reasonable
- Guide: submit phase documents, label them properly,

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

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Action Items					
Item #	Description	Responsible	Due Date	Close Date	Comments
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