Meeting Activity Agenda

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:	12:45pm
End Time:	2:00pm	End Time:	2:00pm
Meeting Date:	Thursday 11/6/14	Meeting Date:	Monday 11/10/14

Old Business Items:

- Ask Guide about what is expected for an assembly drawing
- Talk to guide about component housing
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New Business Items:

-

Items Left Outstanding:

- Will need a table of flow down from ER all the way to components (flow chart?)

Action items – Owners / Deadline:

- Team Tasks - All
  - Keep track of action items from the review
- Adam Podolec
  - Prepare MSD II plan template for team to populate
  - Add video for dorsiflexion
  - Schedule meeting with Guide
  - Email Geni about solenoid
  - Looking into power options
  - Purchasing Solenoid hardware

  Long term
  - Bio
- Megan Ehrhart
  - Finish Layout PCB/SD distance sensing function
  - Test with Adam
  - Talk with Jared
  - Power ratings
  - Budget feasibility
  - MSD II (not sure what this means)

  Long term
  -
- Tyler Leichtenberger

- Design attachment
- Continue Muscle optimization
- Iterate upper attachment
- Increase severity of fishing line risk

Long term

- Color code risk table changes

❖ Jared Green

- PCB Sensors / Schematic (almost done)
- SD card selection (micro SD)
- Power source (assist Megan)
- MSD II project plan
- Update Detailed design project plan on a weekly basis
- Distance sensing – (Ideal position)

Long term

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❖ Geni Giannotti

- Update drawings (11/11)
- Write test report

Long term

- Purchasing
- BOM
- Budget

❖ Noah Schadt

- Test plan for strain test / add details to prioritized tasks
- Continue Muscle optimization
- Consider Permanent Elastic in front

Long term

- Refine foot-lift model / report
- Read Adam's email and discuss
- Type questions for Dr.D
- Notes
- Type report about # of steps based on research

Meeting Notes:

- MechE's had courses for CAD and Noah went to Statics review
- Team spent most of the time in the BAD lab focused on individual aspects of the project
- Geni and Tyler tested the new lower foot lift attachment method in the EA lab

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

Week 9: Rubric
Deliverables (quantity & quality)
Phase-specific deliverables:
- Design output (see examples)
- Risk assessment, mitigation plans & triggers
- Test plan (updated)
- Preliminary Detailed Design Review (80%)

Example design output:
- ME: Drawing package (incl. part and assembly drawings, fasteners, and manufacturing processes identified), mechanical simulations, LabView algorithms
- EE / CE: final schematics and parts list, detailed SPICE, Matlab simulations, development tools. For software: UML/use cases, algorithms, state diagrams, AD/DA mapping for controllers, etc.
- ISE: factory layout, process flow diagrams, workflow maps, supply chain maps, ergonomic drawings, lean implementation plan, inventory management plan.
- BOM complete: vendor identified for long lead-time parts, make-buy (or design-buy) decisions clarified, review against budget
- Simulation models

Process

"- Use of phase-specific tools => outcomes: breadth of tools used, execution, analysis, iteration
- Customer is appropriately engaged
- Requirements flow-down: customer => system => subsystems => components => tests
- Requirements traceability: tests => components => subsystems => system => customer
- Revisit analyses
- Problem solving & risk assessment
- Project planning and tracking
- Use of feedback
- Team functioning
- Documentation

- Execution of review"

Contribution to Team

Quantity & quality of results, adherence to team norms and values, peer reviews, professional behavior, effective communication, use of feedback, project planning and tracking, logbook and other documentation