

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: 1:00pm
End Time: 2:00pm	End Time: 2:00pm
Meeting Date: Thursday 10/9/14	Meeting Date: Tuesday 10/14/14

Old Business Items:

- Risk Updates
- One pager plan
- Muscle optimization phase 1

New Business Items:

- Strain problem
- ASME contest
- Numbers in the document footers
-

Items Left Outstanding:

- Nazareth discussion
-

Action items – Owners / Deadline:

- ❖ Team Tasks
 - Populate tables by Tuesday 10/14
 - Feasibility tests need useful outcomes
 -
- ❖ Adam Podolec
 -
 - Long term (10/21)
 - Bio
 - In Air flow look at flow of air muscle
- ❖ Megan Ehrhart
 - Add column in feasibility
 - Long term (10/21)
 - Research low air alert
 - Always and forever
 - Make EDGE AWESOME
- ❖ Tyler Leichtenberger
 - Talk to guide about risks

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Long term (10/21)

- In Air flow look at flow of air muscle
- Consider Permanent Elastic in front
- Consider not using a quick connect / revise design

❖ Jared Green

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Long term (10/21)

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❖ Geni Giannotti

- Purchase brace by Tue 10/14
- Added column/notes in prioritized tasks
- Prepare lower foot attachment plan
- Complete report from foot-lift feasibility test
- Add MIT document to EDGE

Long term (10/21)

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❖ Noah Schadt

- Get force sensor
- Add notes
- Add corrosion test to long term plan (10/9)
- Visit Performance paintball research regulators

Long term (10/21)

- Refine foot-lift model with angles
- Complete report from foot-lift feasibility test
- Consider Permanent Elastic in front

Meeting Notes:

- Noah signed up for Labview for the DAQ force sensor in the BAD Lab
- Rob from the machine shop came and gave a lab overview with the following highlights:
 - They “don’t want to change our design”
 - Hours 8:00am – 4:30pm (mornings are better, no weekends)
 - Log in every time you use the machine shop (not needed for consulting)
 - Always clean up
 - They have a sign out sheet (*Noah talked to Rob about signing out calipers and we are able to do that*)
 - Small quantities of material are available in house:
 - Aluminum
 - Plastics
 - Steel
 - Ti, Cu...?
 - Ask them
 - Fasteners – **keep design in either metric or English**

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- They have all tools, tap/dye, ect.
- They have a wider collection of Eng fasteners (only basic screws...)
- Common design mistakes:
 - Too top heavy and imbalanced
 - Screws: confusion
- Prior experience you can get it, or take a Monday class (Geni?)
- Screws are open, not if you need 100+...
- **The milling and lathing is in Eng; remember that for the CAD**
- MechE's discussed lower foot attachment and came to a purchasing decision

Guidelines:

- Evolution of CAD package
- *Week 15 goal "can they do it in my absence?"*
 - Drawing for build
 - "A" level work
 - Assembly instructions
 - Drawings
 - Sub->Major->System
- A large part of the week 9 review is direct conversations with the owners
 - Guide reviewed individual tasks with the owners
 - **Free Body Diagrams are a Pet Peeve of our guide**
 - Lower foot attachment
 - What are the criteria for acceptance?
 - Least amount of force
 - What is it we are measuring?
 - Get an idea for an acceptable method
 - Make up techniques to get technical truth (MSA?)
 - Other considerations
 - constricting
 - cooling
 - foot sizes
 - CAIR test
 - note response time
 - flow rate
 - force over time
 - Budgeting
 - Allocation: start with something
 - Solenoid
 - Consider placement
 - Response time
 - Losses
 - Decision tree
 - The flow discharge test

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- Our guide can help us with that, he has access to a decibel meter
 - Guide imitated the Godfather
- Team lead has to create the block diagram
- “A” level is done; not fuzzy
- Why aren’t some of them...*listed on the “A” list?*
- Need week 12 what’s next
- Allocations
 - tradeoff allocations
 - Important for budgeting
- Q: *How much SME?*
 - A: an appropriate level of SME
 - You may not need any, but you shouldn’t have any unaddressed questions or concerns
- Not a formal PowerPoint presentation