

Presenters: Team 15001

- Adam Podolec
- Megan Ehrhart
- Tyler Leichtenberger
- Jared Green
- Geni Giannotti
- Noah Schadt

Feedback Notes:

- Have we looked at (*gate monitoring*) data? – we looked at previous data
- Mechanically how does the gate sensor work?
- Does the air muscle provide all the force or the orthotic
- How does it work while driving?

Mr. Hanzlik:

- What did the prior team do well?
- What were some of the things that the other teams fell short on?

Dr. DeBartolo:

- Small text
- Good EDGE (*She could follow along nicely*)
- General:
 - End users are clients not patients
 - Don't say suffers from
- Foot slap yes that is a concern BUT toes curling? that could be hard especially for a soft orthotic
- For people with spasticity, it is especially hard to lift their feet
- Engineering Requirements:
 - 1cm foot size width
 - Where did that come from?
 - Make it narrower; hard plastic can fit that.
 - If you are a large size D than it could bump you up
 - Weight
 - Yes the last team's design was too big
 - Want to be careful about minimizing just the weight on the orthotic
 - Need to include the weight of the backpack
 - Keep track of total weight***
- Use Scenario
 - The part where the patient takes it home is the whole project
 - The use scenario should focus on that

Student Question

- Is it outside the customer requirements to use a shoe?
- How long does untethered compressed air last?

Dr. DeBartolo:

- Email from JJ about a smart sock

- It has a series of force sensitive resistors that keeps track of the distribution of force on the foot
- She will send the article
- When Mr. Hanzlik asked do they understand the problem definition?
 - Dr.D replied:
 - Yes I think they understand it
 - But I don't think they understand how hard it is

Mr. Hanzlik

- We encourage you to spend a portion of your budget in MSD I for feasibility study
- Key term: Ed Proof make it so Ed can't break it, if you say it can take a 10 foot drop test, he will drop it!
- Very, very, very good start
- Expectations:
 - Submission by Sunday night (*Team members see email for details*)
 - Could have done more benchmarking on prior projects
 - You've got to get more benchmarking done
 - What He saw today was a B outcome
 - Outstanding is an A
- Wednesday is a better day for Him to meet with our group

***15001 Response Question:

- Size or weight?
 - A: It depends on age and distance from the body