

MSD I Detailed Design Progress Review Agenda

- **Intro (16 min)**
 - Introduction and meeting agenda (2 min) [1230-1232]
 - Action items from last review (2 min) [1232-1234]
 - Action items from customer meeting (2 min) [1234-1236]
 - System overview (10 min) [1236-1246]
- **Electrical (20 min) total: 36 min**
 - Schematic/PCB layout (8 min) [1246-1254]
 - Software documentation (2 min) [1254-1256]
 - Top level timing (2 min) [1256-1258]
 - Terrain adaptation (8 min) [1258-1306]
- **Mechanical (18 min) total: 54 min**
 - Component Housing (4 min) [1306-1310]
 - Muscle attachment (4 min) [1310-1314]
 - Muscle optimization stage III (8 min) [1314-1322]
 - Strap analysis (2 min) [1322-1324]
- **Next Steps (26 min) total: 80 min**
 - MSDI document progress (8 min) [1324-1332]
 - MSDII Test plan (5min) [1332-1337]
 - Shared visions (5min) [1337-1342]
 - Problem Tracking (3 min) [1342-1345]
 - Closing the meeting (5 min) [1345-1350]

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Long Term Test Plan MSDII											
P15001: Active Ankle Foot Orthotic - Updated on December 9, 2014											
Test #	Proposal Name	Related System	Question To Answer	rqmnt. #(s)	Engineer	Cost	Start Date	End Date	Phase	Shipping	Complete
1	Ankle-foot force analysis	Raise Foot	Is the force always able to lift foot?	ER2, ER4, ER1	GG,NS	\$ -	9-Feb	6-Mar	2	no	no
2	Power analysis	Recharge or Replace Battery	Is the power source appropriate?	ER9, ER10	JG	\$ -	30-Mar	24-Apr	4	no	no
3	Survey of orthotic aesthetics and interface	Secure Foot, interface	Determine if design is aesthetically pleasing and easy to use	ER17,ER21	GG	\$ -	9-Mar	26-Mar	3	no	no
4	Water-proof test (IP code)	Wash AFO	Is the orthotic machine washable?	ER7, ER8	AP	\$ -	30-Mar	24-Apr	4	no	no
5	CAIR capacity	Supply CAIR, Actuate Muscle	Does the AFO last untethered a whole day?	ER6	NS	\$ 9.00	9-Mar	26-Mar	3	no	no
6	Noise test	Relax Foot, Articulate Foot	Will the release of air meet ER noise levels?	ER18, ER20	TY,AP	\$ -	30-Mar	24-Apr	4	no	no
7	Corrosion test	Wash AFO, Use AFO	Will corrosion be a serious problem?	ER2	TY	\$ -	30-Mar	24-Apr	4	no	no
8	Sub-Terrain test	Distance sensing	Will the distance sensor read the right terrain?	ER11, ER12	JG	\$ -	9-Mar	26-Mar	3	no	no
9	Recording Gait test	Record Gait	Is the Gait updating as it should	ER12	ME	\$ -	9-Feb	6-Mar	2	no	no
10	Wearability Test	Use AFO	How does using the AFO effect the user?	ER3, ER13, ER14, ER15, ER16, ER19	AP, Team	\$ -	9-Mar	3-Apr	3 and 4	no	no
11	Slow Motion Deflection	Raise Foot	How much deflection is needed from the air muscle to replicate normal gait?	ER2, ER4, ER1	NS	\$ -	9-Feb	6-Mar	2	no	no
12	Strap Analysis	Raise Foot	What is the performance capability and comfort of the strap?	ER2, ER4, ER1	NS,GG	\$ -	26-Jan	5-Feb	1	no	no
13	Extended Use Test	Use AFO	How long will the muscle last?	ER3, ER13, ER14, ER15, ER16, ER19	NS	\$ -	9-Feb	6-Mar	2	no	no

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Deliverable Completion Plan					
	Week 7	Week 9	Week 12	Week 15 (End of MSDI)	Owner
CAD	0%	10%	60%	100%	Geni/Tyler/Jared
BOM	10%	60%	80%	100%	Geni
Schematics	20%	50%	80%	100%	Megan/Jared
Software Code	20%	40%	60%	70%	Megan
Build/Assy/ Debug Plan	0%	30%	50%	100%	Adam/Noah
Test Plan	10%	20%	40%	100%	Adam
Risk List	40%	60%	80%	100%	Tyler
Project Plan	0%	10%	40%	100%	Jared
Enter ASME Contest	0%	0%	0%	20%	Adam