

Date: 12/06/2018

Attendees: All + Steve + Sarah + Angela

Announcements:

- Oil residue from pipe bender contaminated the insulation from the inside
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Meeting:

- Damaged insulation
 - Insulation is likely absorbing the oil
 - Degradation?
 - Angela stated no degradation should be occurring
 - She believes the oil is degrading the insulation
 - Michael will be in contact with Angela over break and will be picking up additional materials at TDCR.
 - Wiki Page
 - Include 1 sentence blip describing project at high level overview
 - Include design presentations, compile meeting minutes into one document, and attach product requirements
 - Include images of installing insulation under background section
 - Rollers
 - Materials are limited
 - Angela will send prohibited materials list
 - Can't use rubber
 - Wont pass in cleaner tank for tubes?
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Objectives:

- Post weekly schedule on drive
- Pick up materials at TDCR (Michael)

Date: 11/29/2018

Attendees: All + Steve

Announcements:

- N/A
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Meeting:

- Have results prepared for Angela
 - Michael won't be here for snapshot
 - Meet tonight to set up table for snapshot
 - Logbooks due next week
 - Have motor spec'd out before break
 - Michael will order finger trap tomorrow
 - Determine meeting times for next semester
 - Submit weekly schedule to determine appropriate meeting times
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Objectives:

Date: 10/25/2018

Attendees: All + Matthew, Steve, Sarah

Announcements:

- N/A
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Meeting:

- Substance on tubes
 - Likely was applied
 - All tubing is cleaned after being bent
 - Clean tubing with acetone
 - Don't use copyright material on Wiki
 - Submit information for review before uploading to wiki
 - Regular meeting on Nov 8th
 - May do design review before thanksgiving or after
 - Nov 15th
 - Consider the device being a "third hand" for assisting the operator
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Objectives:

Date: 10/18/2018

Attendees: All + Steve, Sarah

Announcements:

- N/A
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Meeting:

- Document various ideas
 - Powerpoint with visuals or a word document is fine
 - Cast more concepts instead of stopping at just one idea
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Objectives:

- Kaleb - send powerpoint to Angela by COB Wednesday

Date: 10/11/2018

Attendees: All + Steve, Angela

Announcements:

- Angela completed her action item and provided data of the tube bends, radius, etc.
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Meeting:

- Discussed Snapshot day
 - Presented preliminary design sketches to Angela
 - Sketches of
 - Capture decisions made, timestamp things, take images
 - Running document/slideshow presentation to showcase what progress has been made each week to present to Angela
 - Its critical to show innovations and document everything
 - Look at two ideas and pursue/develop ideas
 - Plan to meet with Angela again in two weeks (
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Objectives:

- Kaleb - send Angela documents of constraints to ensure she agrees with constraints given
- Everyone - send Angela pictures of project
- Also send more information to help Angela visualize the concepts as we continue to develop them

Date: 09/20/2018

Attendees: All + Steve

Announcements:

- N/A
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Meeting:

- Consider various methods of installing tubing
 - Jig providing resistance prior to bend
 - Jig to support tube from one end (extension)
 - Springs vs linear actuators
 - Force was exceeding the maximum force reading on scale
 - Need to acquire new scale
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Objectives:

- Acquire new scale for test
- Continue modeling preliminary design

Date: 09/20/2018

Attendees: All + Steve, Angela

Announcements:

- N/A
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Meeting:

- Angela will submit video of assembler installing insulation and the tube bending process.
 - Angela also sent the Ergonomic Product Requirements
 - Team should focus on a single design and have preliminary CAD models drawn up
 - Once we model, we can determine what issues are present and whether or not the design will be feasible.
 - Design, test, fail often.
 - Benchmarking
 - “Bars” set standard operating times for processes.
 - Use these values provided to determine expected cost savings
 - Other metrics, such as ergonomic factors/risks, quality improvements, less failure, etc can be used to determine benchmarks.
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Objectives:

- Acquire scale for tests
- Conduct force tests on pipe
- Create shared drive folder on U drive
- Meet with Steve at 12:30 on Wednesday, Oct 3 in Design Suite

Date: 09/20/2018

Attendees: All

Announcements:

- N/A
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Meeting:

- All
 - Conducted brainstorming session and generated various ideas.
 - Grab
 - Chinese Cuffs
 - Sleeve
 - Mechanical iris
 - Turnoquette
 - cap/seal
 - Push/Pull
 - Compressed air
 - Rollers
 - Caterpillar
 - Pressure differential/hydraulic
 - Springs
 - Added revisions to the Product Requirement document and will submit draft to Steve
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Objectives:

- Develop concepts for a preliminary design iteration. Draw hand sketches of system or create SolidWorks models and prepare ideas for next meeting.

Date: 09/13/2018

Attendees: N/A

Announcements:

- N/A
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Meeting:

- Steve
 - Consider going to Moscow building supply/ for potential mockup to help generate ideas
 - Look through Product Requirements handout to help generate questions on different aspects of the project (20-25 questions)
 - Will send copy of last years Boeing project
 - Kaleb
 - Liaison
 - Michael
 - Agenda/Binder
 - Isaac
 - Budget
 - Ricky
 - Wiki/File Keeping
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Objectives:

- Read Product Requirements document to generate ideas and draft own document