**ME492 Team Meeting PSAS: Electric Feed System Date: 2/9/2017**

**Team Members**

* John Froehlich
* James Luce
* Rawand Rasheed
* Jorden Roland
* Michelle Shang
* John Talik

**Agenda**

* Review Last Week’s Task List - 10 minutes
  + Schedule pump sizing meeting - Sunday afternoon at Johny’s house - Monday work day
    - Big findings: found a SICK motor
  + Get notes on material handling safety- Rawand - check
  + Groom pump sizing code with no inducer - Johnny, making progress
  + Adjust code for Inducer - Jordan, making progress, mixed units *fucking suck*
  + Impeller and casing design/material investigation (Design process) - Rawand, making progress
  + Reach out to the CFT team, get their requirements to get an idea of the ranges - Mimi, Johnny did it (shooting for 3 atm)
  + Attend PSAS Test Stand Meeting (Tuesday 1/7 6-7), Rawand, notes posted on drive
  + Attend PSAS General meeting - Jordan (more people should go to this!)
    - Discussing budget, what do we for $$ now that we did not get the OSGC grant, discussion with Erin about constraints and design requirements
    - They have ton of money for us, sticking with the original budget submitted
  + Final Project Contract due next Friday - Review feedback and edit document, Johnny editing, Talik submission, everyone reviews document, deadline extended to Tuesday Feb 14, meeting with gerry today
    - <http://web.cecs.pdx.edu/~gerry/class/ME492/assignments/hw02.html>
  + Continue working on labview model-Mimi - still working
  + Emailing contacts @ Marshall - James
    - James got in contact with (luke) at marshal
* Pump Sizing Update/Next Steps - 25 minutes
  + Candidate low cost ($100) motor available by aquastar
  + Challenges - Characterizing pump for requirements outside of typical ranges (low flow, high head)
  + Breakthroughs - Barske impeller, head and flow requirements are within a reasonable range, computations confirmed
  + Next steps - Figuring out mixed units, optimizing detailed design for 2-3atm
* Create/delegate this week’s task list - 10 minutes
  + Pump sizing workshop on Monday in the Rocket room
  + Team contract due 2/14 - Meet with Gerry, work on it today
  + Presentation (see below)
  + Everyone brings toys on Monday
  + Order motor and ESC and components - Jordan will talk to Andrew
  + Revisit other topics for prototype
  + Look at spec sheet for motors to verify power requirements- Mimi
  + Investigate RC - Jordan and James
* Progress Presentation Discussion - 15 minutes
  + One student gives context: one slide, 2 minutes max - James
  + One student describes current, unsolved, significant problem: one slide, 2 minutes max - Rawand
  + One student describes team’s approach to solve the problem: one slide, 2 minutes max - Mimi
  + Remaining students take questions: 6 minutes John, John, Jordan
  + Practise on Monday
* Lunch Break
* 1:15-2 Workshop - Team Contract with Gerry
* Notes from meeting with Gerry:
  + **Gerry likes donuts., actually doesn’t**
  + More Quantitative performance analysis
    - Take advantage of range for conflicting parameters
  + Take all things that are not adjustable, take out of matrix, but things that have ranges of values should be, goal is to highlight where they intersect.
  + The purpose of the matrix is to help evaluate which parameters are most important
  + Include only items which have trade offs (performance measures)! Do not include absolutes/constraints.
    - Ie: add flow rate and head
  + Our current set of requirements is more appropriate for the conceptual design phase
  + Friday afternoon - tentative meeting with Gerry 11:30-12:30
  + Take out unmeasurable mission requirements (such as documentation) from project contract