**Meeting 1 1/21/2016**

Teams: Flyrollers, FIGs  
      
Meeting time= 30 min  
Thursday 930AM ECE Conference Room /optional  
  
Flyrollers:  
Task and Goals: Various ECE goals  
Purchases: PCB fabrication, headers, ribbon cables, etc, figure out how much, how long  
Next week goals: Pinouts, headers, encoders, code composer  
  
FIGs:  
Formal agenda necessary  
Find out who is in charge of budget, minutes, agenda  
Budget consultant: Renee Schlickenmeyer ISGC office 3rd floor BEL

Client interview needed- come up with questions, Flyrollers can be internal client. Scheduled for Thursday 1/28

Start Portfolio

     Portfolio Contains

* Minutes
* Datasheets
* Relevant Information

**Meeting 2 1/26/2016**

Client interview questions emailed by 6:00PM 1/27/16

Jesse will be team leader and pick best questions and compile

Client interview scheduled for 4:30PM 1/28/16 in ECE Conference Room

**Meeting 3 1/28/2016**

Flyroller team's email alias:

     engr-flyrollers.uidaho.edu

CLIENT INTERVIEW ANSWERS

-Design

1. Functional and intuitive
2. I hope they do not, have modular design in case of
3. Communicating between groups and each other
4. Mechanical-, electrical-, computer-engineers, physicists, eventually CS
5. Years/long-term
6. Combination of both, support basic user and researcher
7. Not very high priority

-Technology

1. Windows 7/10
2. Focus attention on windows
3. No need for mobile
4. GUI, again functional and intuitive
5. TBD, there is USB to RS232, whatever need for safety, reliability, functionality
6. Use standard language, something CS and CE, would know, C++ python for example
7. GUI will adjust parameters
8. API will need to be developed

-Functions

1. Screen for storage mode, RPM, how much energy, whatever is required for storage and supply, emergency stop, accel/decel rates, ramp up ramp down, force values make it operate, store history of previous runs/data logging, error log, measure power consumption
2. Absolute needed: manual control and error log, second priority is storage supply screen and storing history
3. User routines are a possibility
4. Yes, back to manual control
5. YES to emergency stop
6. No user accounts
7. Interface will impose limits on operating parameters
8. No superusers

**Meeting 4 2/4/2016**

Santora's feedback from client interview transcript:

* Interface page can be multiple pages, not just one. Up to our discretion
* Would like to have (needs) password protected settings page
* Otherwise looks good

Transcript will be signed next meeting.

Ready to move to engineering specifications.

Ben will try to have that done by next meeting, will email if needs help.

Eric met with David from Flyrollers, will help with control algorithms.

**Meeting 5 2/11/2016**

Feedback from technical specifications

Benchmark for emergency stop

Control update for current is TBD

                            position is 10k

Part of the API is determining how fast is the information coming through

Include estimations in tech specs - these are our goals

**Meeting 6 2/18/2016**

Dr. Santora is absent.

Team reports that Qt and GitHub has been installed, and members are on communication page.

Action Items for this week:

* Continue getting familiar with Qt and GitHub
* Eric will work with Flyrollers in continuing communication protocol development

**Meeting 7 2/25/2016**

Each member to develop storyboards for GUI design.

Eric will be liaison to flyrollers so we can get values, ranges, increments, units, etc interpreted from CE to CS/human.

Include in portfolio specifications about Qt and Github.

**Meeting 8 3/3/2016**

Next Tuesday is snapshot day.

Prepare poster.

Summarize what we have done so far.

For GUI – be able to set acceleration

Projected velocity

Eric is official team leader.

Thomas is secretary.

Action Items:

Ben and Jesse: combine storyboard

Thomas: compile minutes

Eric: poster and portfolio cover

Official name: FlyCAM – Flywheel control and monitoring

Official abstract: A storage system of any kind is useless without a control interface. Our user-friendly design allows for precise control of Idaho’s Flywheel Energy Storage System. Additionally, it provides intuitive monitoring of the Flywheel’s performance.