

Weekly Report for 2019-09-29

Student Name: Daylen Mackey (1444775)

Group Name: Milky Way Solutions

Group Members: Leo Marroquin, Jia Xiang (Tony) Yang, Ian Then

Progress this week:

Goals From Last Week (including goals carrying over from weeks prior)		
Goal #	Goal	Status
1	Narrow idea list down to 5 strong ideas	In Progress
2	Rank list of potential clients	In Progress
3	Make contact with the potential client	In Progress
4	Learn more about the biomedical project	Completed
5	Start developing sub-groups for our team based on specialties and tasks members may accomplish	In Progress

Goal 1 & 2

Progress on these two goals were halted as we pursued the biomedical project mentioned in class.

Goal 3

We reviewed all the projects on the list and decided we should contact the client to learn more about the project. An email has been drafted and will be sent out Monday morning.

Goal 4

With the client list being posted this week, we were able to learn more about the “Ion Chamber Calibration Device.” We researched how Ion Chambers work, and how to integrate one into our project. In addition, we also found the client’s patent. This gives us a better idea of what his goals are, and the direction he wants to take this project in.

Goal 5

We have made progress on this goal since last week, but it is not finalized yet. With a better understanding of our potential project, role designation is a bit easier. While we are still determining roles, we understand Leo and Tony will take lead on the power component of the project as they are the most experienced in that area.

Evaluation from last week:

This last week was exciting because the client list was released, but the biomedical project was not what we envisioned. The technology is exciting, but it does not give our group the chance to specialize in the manner we hoped. We have not finalized which project we will pursue, but hope to soon.

Goals next week:

- Email the Client behind the “Ion Chamber Calibration Device”
- Create a group github
- Decide whether or not to contact Levven Controls about potential projects.
- All the “In Progress” goals in the table above remain.

Concerns: None

Weekly Report for 2019-09-23

Student Name: Daylen Mackey (1444775)

Group Name: Milky Way Solutions

Group Members: Leo Marroquin, Jia Xiang Yang, Ian Then

Progress this week:

Goals From Last Week (including goals carrying over from weeks prior)		
Goal #	Goal	Status
1	Narrow idea list down to 5 strong ideas	In Progress
2	Rank list of potential clients	In Progress
3	Create a <i>Trello</i> for task delegation	Completed
4	Make contact with the potential client	In Progress
5	Learn more about the biomedical project	In Progress
6	Start developing sub-groups for our team based on specialties and tasks members may accomplish	In Progress

Goal 1 & 2

Progress on these two goals were halted as we pursued the biomedical project mentioned in class.

Goal 3

We made a Trello account this week to aid with task management and planning. It appears to be a good application, but we’re not sure if it is necessary yet.

Goal 4 & 5

As I am writing this, the client list has not yet been released, so we have not contacted them. Adding these goals this early on into the schedule may have been a bit ambitious. We’ve have taken additional steps to learn about the project through Dr. Barlage (described in evaluation).

Goal 6

We have not finalized group member specialties yet, but we have an approximate understanding of what each member’s role will be. Leo will handle complex hardware, Tony will be in charge of the

communications aspect of the project, Ian will be largely responsible for developing methodologies and researching accurate techniques for radioisotope measurement, and I will be responsible for most of the codebase.

Evaluation from last week:

We did not hit all of our milestones, but we still found some success. The trello account was created, we developed a better understanding of our roles within the group and settled on Tuesdays as our dedicated day to meet with our manager. Leo had the biggest breakthrough when he suggested the possibility of using a *scintillator* to pick up the radioisotope. The scintillator will emit a light in response, that an avalanche photodiode would be able to pick up. The specifics of this technique are still vague, but it seems promising.

Goals next week:

- Learn more about the efficacy of using a scintillator as a measurement device and how to integrate it into our device.
- All the “In Progress” goals in the table above remain.

Concerns: None

Weekly Report for 2019-09-16

Student Name: Daylen Mackey (1444775)

Group Name: Milky Way Solutions

Group Members: Leo Marroquin, Jia Xiang Yang, Ian Then

Progress this week:

Goals From Last Week		
Goal #	Goal	Status
1	Narrow idea list down to 5 strong ideas	In Progress
2	Rank list of potential clients	In Progress
3	Create a <i>Trello</i> for task delegation	In Progress
4	Create a <i>Slack</i> channel for group communication	Completed
5	Finalize a 4 th group member	Completed

Goal 1 & 2

Progress on these two goals were halted as we pursued the biomedical project mentioned in class.

Goal 3

We have not created a *Trello* yet. Since we are still working on delegating roles, missing this milestone is not damaging. The *Slack* channels have served us well, so this goal may be abandoned if deemed unnecessary.

Goal 4

A general *Slack* channel was created for our group. Several sub-channels have also been created to discuss potential ideas, names, and task delegation.

Goal 5

Ian Then was added to the group.

Evaluation from last week:

We did not hit all of our milestones, but I am not concerned. When we learned about the opportunity to aid an external client with a biomedical project, the group shifted their focus towards that goal. We met as a group to make sure each member would be happy pursuing this, then contacted Dr. Barlage to ensure he was also aware of our excitement, and motivation. I see this as a great first step for the team.

Goals next week:

- Make contact with the potential client (may not be possible)
- Learn more about the biomedical project (potentially through their patent or a brief summary)
 - Learn which radioisotope(s) we would be measuring
- Start developing sub-groups for our team based on specialties and tasks members may accomplish (groups may change with time)

Concerns: None

Weekly Report for 2019-09-09

Student Name: Daylen Mackey (1444775)

Group Name: TBD

Group Members: TBD

Progress this week:

- Selected 3 potential group members
 - Leo Marroquin
 - Jia Xiang (Tony) Yang
 - Ian Then
- Had a round table meeting with potential members
 - Discussed project ideas
 - Reviewed each member's strengths and weaknesses
 - Created a list of potential clients to pitch to

Evaluation from last week:

As this was the first week, we didn't come in with any concrete goals. We are making good progress, but I would like to see more novel and potentially patentable ideas on our list next week.

Communication between team members is strong, but we need to be more disciplined moving forward.

Goals next week:

- Finalize a 4th group member
- Narrow idea list down to 5 strong ideas
- Rank list of clients
- Create a *Slack* channel for group communication
- Create a *Trello* for task delegation

Concerns:

There are no concerns at this time, only eagerness to begin.