

Team F6
Plasticity modeling
September 22, 2017

Abdullah Almutairi
Nawaf Alkhalaf
Omar Almutairi
Mutairan Alhabashi

Meeting Minutes

1) General announcements from the project leader.

We couldn't meet up with our client because she was out of town and she scheduled us for Monday September 25, 2017. In this case, we couldn't have any specific ideas what our client looking for. Instead, the team will need to come up with potential needs to make the meeting more productive. On the other hand, we have met with Dr.Oman today and she was able to clarify the project more and gives us some ideas other than plasticity and elasticity to search for. The team has prepared well to meet with Dr. Feigenbaum by Monday.

2) Individual reports of progress.

Most of the tasks assigned will be done by the entire group, but here are the tasks assigned for each person:

- Mutairan Alhabashi will be working with the client contact. Also he will be working on the report parts and the PowerPoint slides.
- Nawaf Alkhalaf will be responsible for doing the website for the entire project. He will post every action made by the group. I will take a part as well as the group member in writing the preliminary report and working with PowerPoint slides. To be specific for this week I am going to work with the sections 1.1, 1.2, and 1.3 which are the introduction, problem statement, and design requirements. In addition, I will be working with the first 5 slides of the PowerPoint that are the same sections I responsible for in the report. Plus I will talk more in the customer needs analysis.
- Omar AlMutairi will be responsible of editing the documents prior to submission. For this week, he will be responsible for editing the QFD before our next meeting, that will be used in the Preliminary Presentation.
- Abdullah Almutairi will be responsible for the budget analysis. That's his role for the project as a whole, but in the meantime he will focus on the QFD and getting it done on time.

3) Team discussion of future direction

- The team is required to plan ahead, do more research and stay on course.

4) New promises are made.

- Omar AlMutairi will be responsible for updating the Gantt chart. Also, work with the team to come up with engineering requirements after our meeting with our client.
- Nawaf Alkhalaf will be working on sections 1.1,1.2,& 1.3 from the preliminary report. As well as editing the PowerPoint slides.

- Mutairan Alhabashi will be working on the PowerPoint of the presentation on week 6. He will be responsible for editing the report. Sections 2.1 and 2.3 and 2.4.
- Abdullah Almutairi will work on completing everything needed to be done before the presentation.

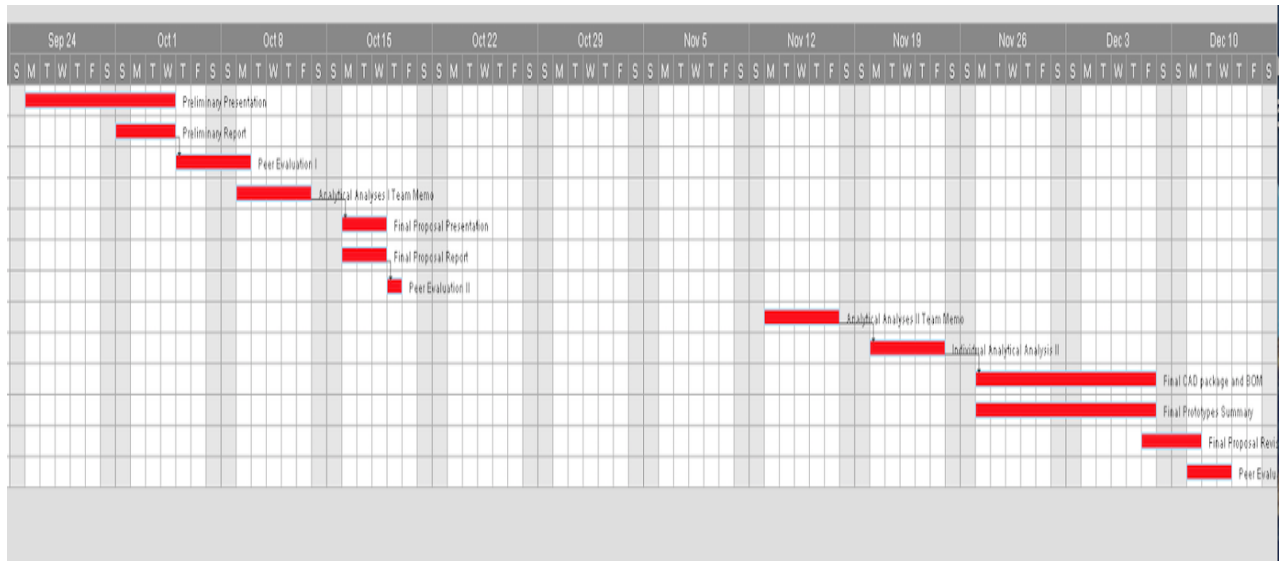
Using the project description file, we came up with many potential customer needs. The team just needs to confirm with the client and move on to come up with the engineering requirements needed to accomplish the project. Below is a list we generated prior to our meeting with Dr. Feigenbaum.

The customer needs that we came up for our project:

1. Easy to be stored in the office.
2. Can be seen in a classroom with 20 students.
3. The design should be a desktop sized.
4. Number types of spring.
5. Portable.
6. Different materials used to build the box.
7. Different frictions for the surface.

Appendix A: Gantt Chart

	Task Name	Duration	Start	Finish	Assigned To	% Complete
1	Preliminary Presentation	8d	09/25/17	10/04/17	Team	0%
2	Preliminary Report	4d	10/01/17	10/04/17	Team	0%
3	Peer Evaluation I	3d	10/05/17	10/09/17	Individual	0%
4	Analytical Analyses I Team Memo	5d	10/09/17	10/13/17	Team	0%
5	Final Proposal Presentation	3d	10/16/17	10/18/17	Team	0%
6	Final Proposal Report	3d	10/16/17	10/18/17	Team	0%
7	Peer Evaluation II	1d	10/19/17	10/19/17	Individual	0%
8	Analytical Analyses II Team Memo	5d	11/13/17	11/17/17	Team	0%
9	Individual Analytical Analysis II	5d	11/20/17	11/24/17	Individual	0%
10	Final CAD package and BOM	10d	11/27/17	12/08/17	Team	0%
11	Final Prototypes Summary	10d	11/27/17	12/08/17	Team	0%
12	Final Proposal Revision	2d	12/08/17	12/11/17	Team	0%
13	Peer Evaluation III	3d	12/11/17	12/13/17	Individual	0%



Meeting Minutes

Team F6 “Plasticity modeling”

October 13, 2017

List of tasks for week 8

Names	Task assigned for each members
Omar Almutairi	<ul style="list-style-type: none"> • He will be working on the analytical research on several materials to use the appropriate one for our design. • Will be do research on the friction surfaces, so we get a head idea before meet with the client.
	<ul style="list-style-type: none"> • After getting the approval from Dr.Oman I will be working in depth of how to connect the Arduino with sensors, and I will get the report done by its due. • I will be working on publishing the website and get it done at least by Tuesday.
Mutairan Alhabashi	<ul style="list-style-type: none"> • He schedule us for client next week so we discuss the final design idea. As well as come up with figure show the initial electrical connection for the box to get the plot. • He will be researching about the spring constant calculations and applied to the kinematic equation
Abdullah almutairi	<ul style="list-style-type: none"> • Prepare some final design sketches to show for the client next meeting. • Working on the force gauge calculation to include it in my individual report.

Project Name: Plasticity Modeling (F6)

Meeting Minutes for Week 9 actions

Project members	Task assigned for each person
Nawaf Alkhalaf	<ul style="list-style-type: none">• Working on the analytical analyze• Start writing section 6.1 & 6.2 from the final report
Omar Almutairi	<ul style="list-style-type: none">• Working with the client to ensure the best idea for the project.• Working on the analytical analyze
Mutairan Alhabashi	<ul style="list-style-type: none">• Work on some CAD modeling through solid work for our final design• Working on the analytical analyze
Abdullah ALmutairi	<ul style="list-style-type: none">• Working on the analytical analyze• Adding graphs & new sketches for the design.

Meeting Minutes

Team F6 "Plasticity modeling"

October 27, 2017

recording of what happened during the meeting:-

1. General announcements from the project leader.

a) The last meeting with the client, we did go over the final concept for our design, so we get a good start with how to build our prototype that we are going to present next class. We also asked her about a program that is used in CENE 253L that give us the same results we need for our design and she approved that for us as the Arduino needs a lot of codes and will make things very hard.

b) This is a small project, which is the mainly sponsor will be Dr.Hiedi as this design will be presented in her plasticity classes as well as the ME department. As we know our final concept we good to go with building that prototype for our design. The main components that we need for our final design:

- Four springs, two will be used for the user to pull & push, however the other two each will be attached in a wall with the box.
- Strong friction surface.
- A strong plastic material will be used to build the box.
- 2 sensors that needs to be programmed with the plot website mentioned above to get the plots needed.

2. Individual reports of progress.

a) Each team member will discuss their progress on the task(s):-

Nawaf Alkhalaf: As the website has been published, I need to work on those main web pages, and try to create some buttons in the main page. For example project description, team information, sponsor & client information and etc..., furthermore, I will be working on chapter 7 from the final report which contains the manufacturing & design changes

Abdullah Almutairi: I will be working on the budget, simply generating a list with the materials and instruments needed to build the project. The list will be included in the final proposal stating the approximate budget needed to deliver the project.

Omar Almutairi: Work on a prototype that satisfies the client's final design. Also edit the report from any mistake before the team proceed in writing the new sections.

Mutairan Alhabashi: will be working on the report. He will add new sections about the final design. He will be adding information about what the client is looking for. For example the final design sketch.

3) Team discussion of future direction

We hope that we stay on course, but still be one step ahead in case any issues come up.

4) New promises are made.

List of tasks for week 10

Names	Task assigned for each members
Omar Almutairi	<ul style="list-style-type: none"> • Work on prototype with Mutairan. • Fixing the report from any old mistakes and preparing it for final proposal.
Nawaf Alkhalaf	<ul style="list-style-type: none"> • I will be working on the website and try to publish our main pages. • I will be working with some sections on chapter 7 from the final report.
Mutairan Alhabashi	<ul style="list-style-type: none"> • I will be working on the prototype design of the project with omar. • I will be working on the final report with chapter 6
Abdullah Almutairi	<ul style="list-style-type: none"> • Work on the budget and gathering information to submit proposal. • Work on the Final Report

Meeting Minutes

Team F6 "Plasticity modeling"

November 02, 2017

-Recording of what happened during the meeting:-

1. General announcements for the latest updates for the projects:

This week will mainly focus on getting the final design done, the physical model was done in week 10 and it looks great as of now. But we need to work on the electrical design and get the Arduino connection done by no later than the end of week 12. After getting those done, we can work on the final prototype & proposal. The other important portion of this week is to work on both the final report and final presentation. And turn them each in their due time.

2. Individual reports of progress.

a) Each team member will be working on a different chapter from that report and try get it done by Monday, after that we are going to go through all the typo and edit the past comments from the preliminary report and then add the correct parts (chapter 1-5) to the final report.

b) We will try our best to get the report done by Tuesday, so we can take it to the Jeremy and he will add us more comments to work on. Hopefully, after getting the report done then we will be able to work on the slides for the presentation and turn it in by Wednesday.

- Here are each member's task description:

Nawaf Alkhalaf: I will be working on the main page & about us page for our website. Also I will be responsible from chapter 7 on the report to work on. It's the implementation for our design. In this section I will go in deep in manufacturing parts and discuss how those parts are important to finalize our design. Plus, I will clearly describe how our design has changed from the last report submission. Last but not least, the part that I will be working on for the presentation is the design description as I talked about the same part in the first presentation, so I will be very confident to talk again and describe more pictures for our design.

Abdullah Almutairi:

Omar Almutairi:

Mutairan Alhabashi: I will be working on the testing and conclusion part. For the presentation I will be working on the overall of the project. Also I will be working with my teammates for the presentation. Also will be editing the final report.

List of tasks for week 11

Names	Task assigned for each members
Omar Almutairi	<ul style="list-style-type: none">- Editing the report with Nawaf and work with CAD modeling.- Will be responsible for the last submission.
Nawaf Alkhalaf	<ul style="list-style-type: none">• I will be responsible to work on chapter 7 (Implementation design) for the final report and get it done by Monday.• I will be editing and working on the design description slides for the presentation and add more slides describe how the design changes since last submission.
Mutairan Alhabashi	<ul style="list-style-type: none">• Will be working on the slides of the presentation for the project.• Will be working on the testing part and the conclusion.
Abdullah Almutairi	<ul style="list-style-type: none">- Will help Mutairan with slides- Will be working on the drawing part.

Meeting Minutes

Team F6 "Plasticity modeling"

November 10, 2017

-Recording of what happened during the meeting:-

1. General announcements for the latest updates for the projects:

This week we will be working on the peer evaluation. Every Team member will be doing his peer evaluation separately. We will be searching on analytical analyses two for the team memo.

2. Individual reports of progress.

a) Each team member will be working on a the CAD and BOM parts, so we will be dividing the works between us, so one will take care of assembly others will take care of parts drawing and bill of material. Furthermore, we need to start with the work with individual analysis part 2 to get an approved topics from Dr.Oman.

b) We will try our best to get the analysis 2 done by Tuesday, so we can send it to DR.Oman and get the approve. After that each member will be working on his own individual task. After that we will be start doing the summary for our prototype.

- Here are each member's task description:

Nawaf Alkhalaf: I will start working with the final CAD and BOM for our design as well as I will be editing and adding some important information to our website.

Abdullah Almutairi: Will work on the CAD and BOM for the design. Choosing the finalized dimensions for the design.

Omar Almutairi: Will be working on the CAD and finalizing the design. Editing the report and write a new Individual Analysis.

Mutairan Alhabashi: I will be helping Nawaf with the CAD parts, also I will be start doing the first paragraph from the summary of prototype.

List of tasks for week 11

Names	Task assigned for each members
Omar Almutairi	<ul style="list-style-type: none">• CAD and BOM get it done before submitting report.• Work on the finalized dimensions.• Work on the finalized materials.
Nawaf Alkhalaf	<ul style="list-style-type: none">• Will be work with adding our images and sketches for the website.

	<ul style="list-style-type: none"> • Work with final CAD and BOM and get it done at the end of this week.
Mutairan Alhabashi	<ul style="list-style-type: none"> • Will be working on the peer evaluation • Searching about springs for the analytical analyses
Abdullah Almutairi	<ul style="list-style-type: none"> • Work on the CAD and BOM. • Individual Analytical Analysis.

Meeting Minutes

Team F6 “Plasticity modeling”

Nov 17, 2017

List of tasks for week 13

1. General announcements for the latest updates for the projects:

We are currently on schedule and for this project. As a team we are doing the CAD and we are working on the BOM. Every team member is working on his part from the task assignments. Before December 8, 2017 we should be done from all of our works.

2. Individual reports of progress.

a. The team wants to start out by doing the prototype summary and try to make the prototype model more professional and add some parts that wasn't in the prototype when we did it the first time. Moreover, Abdullah and Mutairan will be editing the final proposal report and add some significant parts and description for the report.

b. We will try our best to get at least half of the works done before the thanksgiving holiday. There are a lot of issues in our CAD model we did first time, so Nawaf and Omar both will be working with editing the parts dimension and finalize the design model. Hopefully after the thanksgiving we will get to gather and get ready to order the Arduino parts with the sensors.

- Here are each members task description:

Nawaf Alkhalaf: He will be work with the gallery page from the website and add our project photos as well as the prototype photos. He will be helping Omar with editing the parts dimension and add some missing parts to get the full CAD.

Abdullah Almutairi: He will be working with the bill of materials and try to specify each part in a particular and define it in a way that everyone can understand what we are using for the project.

Omar Almutairi: His mainly job is to work with the CAD and the parts 1,2 and 3. Also he will be writing the introduction and project description for the prototype summary.

Mutairan Alhabashi: He will be responsible of getting the edit of the final report done. He will be helping Abdullah to get the bill of materials for all parts.

Names	Task assigned for each members
Omar Almutairi	<ul style="list-style-type: none"> • Will be working on the CAD • Will be working on the prototype summary
Nawaf alkhalaf	<ul style="list-style-type: none"> • Will be working on the website, add some photos and design prototype • Working with Omar on the CAD
Mutairan Alhabashi	<ul style="list-style-type: none"> • Will be working on the BOM • Will be working on the final proposal
Abdullah Almutairi	<ul style="list-style-type: none"> • Will be working the analytical analyses. • Will be working on the BOM