

MECH 4860 (Senior Project Design) – Meeting Minutes

Date: September 9th, 2014

Attendance: David, Allison, Yapah, Persaud, Jeffrey, Josel De la Cruz and Ronald

- *We all reviewed the parts necessary to running a successful meeting.*
 - *Meeting leader, note taker, timekeeper, cost/estimate of the materials needed*
- *We all agreed on a title to make An Expandable Bike. Ronald reviewed the parts, price and ideas along with Persaud*
- *We began writing the Preliminary Design Report of the Design Problem which included the key information like Problem statement, bench marking, Purpose and market, Functional requirement and Corporate Constraint*
- *David emphasized on how we are to work as a team. That we make the decisions and that we need to decide among ourselves the issues.*
- *Yapah came up with specific details like size, height, and a Prototype*

Action items:

1. *Need to have meeting setup for next week*
 2. *Need to work out method to have meeting leader, timekeeper, and note taker for each meeting.*
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Date: September 16th, 2014

Attendance: David, Allison, Yapah, Persaud, Jeffrey, Josel de la Cruz and Ronald

- *We as a group came to a decision to split up on work on two separate ideas.*
 - *Yapah, Allison, David*
- *Wanted to work on the idea of creating a selfie stick.*
 - *Raymond, Ronald, Jeffrey, Josel*
- *We also wanted to choose a different project after brainstorming for a while, Ron and Josel came to the conclusion to build a CNC machine.*
- *Jeffrey and Raymond agreed to the idea since it would be cool to build our own CNC machine.*
- *WE needed to come up with a new design isn't the same as those on the market.*

Action items:

1. *Research on CNC machines and check what is on the market.*
2. *Need to work on a design unique to our machine.*

MECH 4860 (Senior Project Design) – Meeting Minutes

Date: September 23rd, 2014

Attendance: Persaud, Jeffrey, Josel De la Cruz and Ronald

- *The group goes to work on researching a CNC machine design.*
 - o *Raymond, Ronald, Jeffrey, Josel*
- *We search for CAD files and the most commonly use design.*
 - o *Ronald, Josel, Jeffrey*
- *Decided to design a single arm CNC machine.*
- *The arm will rise up and extend outward to cover the area of the plate.*

Action items:

1. *Research on extendable arms*
 2. *Materials that is able to stretch and collapse and still maintain its original shape.*
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Date: September 23rd, 2014

Attendance: Persaud, Jeffrey, Josel De la Cruz and Ronald

- *The group goes to work on researching a CNC machine design.*
 - o *Ronald and Jeffrey*
- *Goes to work on the CAD and solid works design*
 - o *Josel*
- *Prepares the information needed for the report*
 - o *Raymond*
- *Gathers details from other CNC machine website to help with the design phase.*

Action items:

1. *Research on the mechanics of a CNC machine*
2. *Rough sketch of our CNC design*

MECH 4860 (Senior Project Design) – Meeting Minutes

Date: September 30th, 2014

Attendance: Persaud, Jeffery, Josel de la Cruz and Ronald

- *The group continues to work on the CNC machine design by updating and creating new parts*
 - o Ronald and Jeffrey*
- *Work on the solid work design as Jeffrey dictates spec and measurements*
 - o Josel*
- *Putting the final touches on the report covering chapter 1-3*
 - o Raymond*
- *Puts together the customer needs chart and matrix*

Action items:

- 1. Prepare for the Presentation*
-

Date: October 07th, 2014

Attendance: Persaud, Jeffery, Josel de la Cruz and Ronald

- *The group continues to work on the CNC machine design by updating and creating new parts*
 - o Ronald and Jeffrey*
- *Work on the solid work design as Jeffrey dictates spec and measurements*
 - o Josel*
- *Formulating the report covering chapter 1-3*
 - o Raymond*
- *Create a benchmarking matrix using information gather from CNC websites.*

Action items:

- 1. Prepare for the Presentation*
- 2. Meet on Saturday 10/11/14 to continue with the design phase and cut the op plate. Got to school and the water jest isn't working due to a clog in the sand line.*

MECH 4860 (Senior Project Design) – Meeting Minutes

Date: October 21th, 2014

Attendance: Persaud, Jeffrey, Josel de la Cruz and Ronald

- *Trouble with the parts we ordered*
 - o *Ronald and Jeffrey, Josel, Raymond*
- *The school don't deal with the websites we had use for research and to order parts.*
 - o *Ronald and Jeffrey, Josel, Raymond*
- *We had to make alterations to our design since we had used some cad file from their websites.*
- *Dr. Xiao informed us that we have to use the sites that CUNY deals with in order to make safe and secure purchases.*
- *We are delayed another week with no parts and we have to reconfigured the design to accommodate the new parts from the new websites.*

Action items:

1. *Modify our parts to the measurements of those provided by the school website.*
 2. *Meet on Saturday 10/25/14 to work on 3D printing a few parts for testing.*
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Date: November, 11th, 2014

Attendance: Persaud, Jeffrey, Josel De la Cruz and Ronald

- *Our team tries to salvage what little time we have to complete the design and get our parts needed to construct our CNC project.*
 - o *Ronald and Jeffrey, Josel, Raymond*
- *Jeffrey puts a few brackets to 3d print*
 - o *Josel and Raymond*
- *Work on assembling the base of our CNC machine*
- *But the machine workshop is locked and we don't have the necessary tools or machines to get it complete. We only received half our parts that was ordered, the others are still on route to be delivered.*

Action items:

1. *Meet on Saturday 11/15/14 to continue working on the project. Finally got to water jet cut our plate and the brackets out of the ¼ inch galvanized steel.*

MECH 4860 (Senior Project Design) – Meeting Minutes

Date: November 18th, 2014

Attendance: Persaud, Jeffrey, Josel De la Cruz and Ronald

- *Trouble with the parts we ordered*
 - o *Ronald and Jeffrey, Josel, Raymond*
- *The school don't deal with the websites we had use for research and to order parts.*
 - o *Ronald and Jeffrey, Josel, Raymond*
- *We had to make alterations to our design since we had used some cad file from their websites.*
- *Dr. Xiao informed us that we have to use the sites that CUNY deals with in order to make safe and secure purchases.*
- *We are delayed another week with no parts and we have to reconfigured the design to accommodate the new parts from the new websites.*

Action items:

1. *Modify our parts to the measurements of those provided by the school website.*
 2. *Meet on Saturday 10/25/14 to work on 3d printing a few parts for testing.*
-

Date: December 2th, 2014

Attendance: Persaud, Jeffrey, Josel De la Cruz and Ronald

- *Our shaft and lead screws arrived; we are still awaiting a few parts that is needed.*
 - o *Ronald*
- *Still working on the design phase modifying it as we go*
 - o *Josel*
- *Brings the square tubes need for base assembly*
- *Dr. Xiao informed us that he is waiting for our parts to be delivered to school.*
 - o *Jeffrey*
- *Works on the stresses and failures of each parts for chapter 6*
 - o *Raymond*
- *Works on the detail drawings of each new part and order any other parts needed that we can buy on our own.*

Action items:

1. *Order couplings and bearings and lock nut screw.*
2. *Meet on 12/06/14 to assemble the base and finish printing a few more parts.*
3. *The machine shop was locked on Saturday and the professor didn't want us to make noise during his class.*
4. *Both 3d printers was already in use with delay our 3d printing of parts.*

MECH 4860 (Senior Project Design) – Meeting Minutes

Date: December, 9th, 2014

Attendance: Persaud, Jeffrey, Josel De la Cruz and Ronald

- *Few more parts arrive, and we begin to assemble what we can.*
 - *Ronald*
- *Helps by overseeing the assembly of the base and top plate along with checking the 3d parts to make sure it fix with our other parts.*
 - *Josel*
- - *Jeffrey*
- *Puts a few more parts to be 3d printed, then prepares the top plate to be attached to the base.*
 - *Raymond*
- *Works on the detail drawings of each new part and order any other parts needed that we can buy on our own.*

Action items:

1. *Order couplings and bearings and lock nut screw.*
 2. *Meet on 12/06/14 to assemble the base and finish printing a few more parts.*
 3. *The machine shop was locked on Saturday and the professor didn't want us to make noise during his class.*
 4. *Both 3d printers was already in use with delay our 3d printing of parts.*
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Date: December, 9th, 2014

Attendance: Persaud, Jeffrey, Josel de la Cruz and Ronald

- *Few more parts arrive, and we begin to assemble what we can.*
 - *Ronald*
- *Helps by overseeing the assembly of the base and top plate along with checking the 3d parts to make sure it fix with our other parts.*
 - *The team*
- *Works on cutting the lead screw to length and the aluminum bar for the arm support and for the shafts. we are trying our best with what little time we have left and the parts that was provided along with what we have brought on our own to finish this project.*

Action items:

1. *Meet on Monday 12/14/14 to collect the parts we 3d printed a put a few others to print for Tuesday.*
2. *Meet on Tuesday to try to get as much done as we could before final presentation.*