

MEETING MINUTES

Topic: Meeting for Team 19 - Modified Bicycle Design Team

Tuesday, November 1, 2016

4:15 pm to 5:45 pm

Minutes recorded by K. Zoe Lucke

Meeting called by Instructor David Trevas

Attendees: Fahad Alajmi, Matthew Palmer, Basem ALghamdi, K. Zoe Lucke, and Alex Lawson

Table 1: Record of meeting

4:15 pm to 5:00 pm	Discussion on Testing Procedures <ul style="list-style-type: none">Discussed different testing procedures based on customer and engineering requirements.<ul style="list-style-type: none">Testing Procedures outlined in Table 3	Dub Bois Center Rm 19
5:00 pm to 5:10 pm	Discussion of Final Solutions <ul style="list-style-type: none">Final Solutions to be pursued:<ul style="list-style-type: none">Spring Crank Set SliderImproved Gear Ratios/Shortened Crank ArmDecided to wait on the individual analyses before further discussion.	Dub Bois Center Rm 19
5:10 pm to 5:25 pm	Discussion of Prototype for Presentation 3 <ul style="list-style-type: none">Proof of concept (Visual)Try cardboard first	Dub Bois Center Rm 19
5:25 pm to 5:40 pm	Discussion of Manufacturability <ul style="list-style-type: none">Discussion on which parts should be ordered/bought and which parts should be machined:<ul style="list-style-type: none">Gears are ordered/boughtSprings are ordered/boughtPedals are ordered/boughtCrank arms are ordered/bought<ul style="list-style-type: none">Machine the slot in the crank arm	Dub Bois Center Rm 19
5:40 pm to end	Discussion of Upcoming Deadlines <ul style="list-style-type: none">Noted that Team Meeting 3 is due on 11/6/16Noted that the Individual Analysis is due on 11/11/16	Dub Bois Center Rm 19

Table 2: Tasks Assigned

Task	Person Assigned	Due Date	Date Complete
Contact Dr. Raab (client) to approve final solutions	Fahad Alajmi	11/8/16	
Individual Analysis	Everyone	11/11/16	

Table 3: Discussed Testing Procedures

Testing Procedures:
1) Knee angle testing – take pictures of knee angle at key locations
2) Torque test – 3D print test platform, use belts to test the torque
3) Falling weight test – Outlined in the Engineering requirements
4) Seat height test – to see how much higher the seat must be in order for the knee angle to be less than 90 degrees throughout the pedal stroke
5) Gear test – test the force/time it takes for a foot to reach the bottom after applying pressure.

Next formal meeting: 11/9/16, Internet Cafe, Engineering Building, at 6:30pm.