ENGR141 Grade Report: Project 3 Report Draft

Team:	Team 59	**Total Points Earned**	34.5
Grader:	Casey Schilling	**Total Points Possible**	49
		Percentage Earned	70%

Grading System Message(s)	

Format:	**Pass**	**Part.**	**Fail**
Margins: 1.25" left/right, 1" top/bottom	1	NA	**0**
Line spacing 1.5	**1**	NA	0
Font: Size 12 Times New Roman	**1**	NA	0
Cover page with team number and names, followed by cover letter (both criteria must be met to pass)	**1.5**	NA	0
Bold-faced centered "Executive Summary" after cover letter (both criteria must be met to pass)	**1.5**	NA	0
Page limits: Executive Summary (0.5-1 pg), Design Considerations (1.5 - 2 pg), Results and Discussion (1-2 pg), Conclusions & Recommendations (1 pg)	**1**	NA	0
Are there headings/titles for each section?	**1**	NA	0
Are references credible, reliable and in APA citation style? (Pass if no references)	**1**	NA	0
File Name: Proj3_Report_Team_*XX*.docx	**1**	NA	0
Subtotal	9		
Possible	10		

Content:	**Pass**	**Part.**	**Fail**
Does the cover letter address the problem precisely and concisely?	3	**1.5**	0
Does the Executive Summary contain:			
Highlights of the problem solved	**3**	1.5	0
Unique features of the robot	**3**	1.5	0
Factual description of the robot's performance	3	1.5	**0**
Does the "Design Considerations" section contain:			
Details of the design process	3	**1.5**	0
Description of preliminary designs, including positive and negative attributes and why they were discarded	**3**	1.5	0
Unique features of the robot	3	**1.5**	0
Does the "Results and Discussion" section contain:			
Description of the robot's performance in comparison to the expectations of the robot's performance	3	1.5	**0**
Factual data to support description of performance	**3**	1.5	0
Explanation of reasons for the robot's success or failure	3	**1.5**	0
Does the "Conclusions and Recommendations" section contain:			
Summary of findings	**3**	1.5	0
Recommendations for improved performance	**3**	1.5	0
Overall, is the document written professionally?	3	**1.5**	0
Subtotal	25.5		
Possible	39		

☑

Total	**34.5 of 49**

Comments

General: Margins look weird to me, but I might be wrong (look like they are 1.25" all the way around). A few uses of first person pronouns. Definitely avoid those and try really hard to write it in a more active tone to really focus it on the robot project than on you all or the robot itself.

Cover Letter: Be sure to summarize the results of your project (answer the question of how did you solve the problem given?). Also, I would say that your solution description could be a little more high level if it needed to be.

Executive Summary: Definitely will want to condense this material and be a little more precise with your space here because for the final you'll want to cover how well your robot met your specification. <-- Keep that in mind that while it is good for you to cover how well the robot did in the final demos, it is almost more important to justify its function in terms of what your goals were.

Design Considerations: I would like to see more project management (like timeline), HoQ ideas and design processes in the final. Also, think about other design processes like the programming aspects and the integration of all the subcomponents. You highlight alternative designs well and why they didn't work, but I would like to know more about the final designs as well. Sometimes I know precisely how the alternative idea would have worked, but then you just say "Instead we went with this idea." - Some more balance would be good. Love the appendix figures... Very useful. Consider how you can better use tables and figures to your advantage in this section, like perhaps you use a morph chart to show all these alternative ideas and then just highlight a few for the full pros/cons. Or use a weighted decision matrix/morph chart (HoQ-like) that show what the best solution was with text highlighting why the best wasn't used or pros/cons of some of the ideas. Also, you show definitely talk about the robot as a whole at some point, even if it is just in terms of "idea X wouldn't work for this subcomponent as it negatively affected Subcomponent Y's task.

Results: Like I commented earlier, put your results in terms of your expectations and goals. If you expected it to never deviate more than 3 inches from the line, than I want results that say if you met this criteria or not. You need to report how well it did in the demo as well, but it should be less "we got a pass from the TAs for this" and more "because the robot performed this certain way, it met and exceeded goals." Also, make sure you don't just say what happened, but also what caused it (beginnings of the engineer's root cause analysis thinking).

Conclusions: Good recap of the findings from the PoC and good recommendations.