

**Review Form 3**

Journal Name:	<b>Journal of Engineering Research and Reports</b>
Manuscript Number:	<b>Ms_JERR_120344</b>
Title of the Manuscript:	<b>Design and Implementation of a Cooking Gas Gauging System using STM32F411CEU6 Microcontroller</b>
Type of the Article	

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**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.	Cooking Gas Gauging System is quite relevant. More research is needed to produce affordable system for mass domestic usage.	
Is the title of the article suitable? (If not please suggest an alternative title)	<p>The title is suitable but considering the article conclusion "Enhancing LPG User Experience in Nigeria: A Study on Implementing IoT-Based LPG Gauging System for Consumer Protection and Convenience"</p> <p>Or</p> <p>"Enhancing Household Safety and Convenience through the Implementation of an IoT-based LPG Gauging System with Remote Monitoring and Refill Reminders"</p> <p>may be more suitable</p>	
Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.	<p>Abstract and conclusion are best enough, not properly written and needs to be developed further to highlight the unique contributions of the paper. It should be crisp and to the point</p> <p>Suggestion: In Nigeria, LPG users face fraud and inconvenience due to their inability to gauge gas levels in cylinders. This paper introduces an IoT-based LPG gauging system using the STM32F411CEU6 microcontroller, load cells, HX711 amplifier, and a custom mobile app for remote monitoring. The system prevents fraud and notifies users via SMS or calls when gas levels are low, ensuring continuous availability of gas. The system is powered by a battery, a 5V power pack, and an 18W solar panel.</p>	
Are subsections and structure of the manuscript appropriate?	Averagely appropriate	
Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.	Cooking gas level monitoring system is highly relevant. Further research is required to develop cost-effective systems for widespread household use. The originality of the design is needs improvement.	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.	Mostly recent	

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Minor REVISION comments <b>Is language/English quality of the article suitable for scholarly communications?</b>	<b>Suitable, however, observe proper grammar, sentence construction and spelling Spaces between paragraphs must be observed</b>	
<b>Optional/General</b> comments	<b>The merits and demerits of existing work should be stated and author should state that in what way the results are better with other existing from the literature survey. I can find none  Figure 1, 2, 3, 6, 7, 8 and 9 should be cited like Figure 4 within the text.  Contents needs to be developed further to highlight the unique contributions of the paper, testing of the design, and how the friendly interface was developed</b>	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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