

Review Form 3

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_128855
Title of the Manuscript:	DESIGN AND IMPLEMENTATION OF A TRAFFIC SIGNAL STOP-LINE VIOLATION SYSTEM FOR VEHICULAR DETECTION
Type of the Article	Original Research Article

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback <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 a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	The integration of modern IoT-based technology, such as infrared sensors and microcontrollers, has potential benefits for enhancing road safety, improving traffic law enforcement, and reducing accidents. By highlighting a cost-effective and scalable solution, the authors contribute to ongoing advancements in smart city infrastructure and traffic management systems. The research holds promise for widespread application, particularly in urban centers struggling with traffic congestion and violations, and could serve as a model for future innovations in transportation technologies.	OK
Is the title of the article suitable? (If not please suggest an alternative title)	The title is informative and accurately reflects the content of the study. However, it could be made more concise for better readability and impact. An alternative suggestion is: Suggested Title: "Development of an IoT-Based Traffic Signal Violation Detection System"	Title as Suggested is adopted i.e Development of an IoT-Based Traffic Signal Violation Detection System
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract is generally comprehensive, as it provides an overview of the study's objectives, methodology, key findings (98% detection accuracy, 60% reduction in response time), and potential implications for road safety and smart traffic systems. However, the following suggestions could improve its clarity and informativeness: Addition: Briefly mention the real-world significance of the 98% accuracy rate in reducing violations or accidents. Clarification: Clearly define the system's components, such as the "integration of IR sensors and ESP32 Camera" and how notifications are delivered to authorities. Deletion: Avoid repeating generic statements like "recommendations include expanding functionality" and instead specify how future expansions could enhance outcomes.	Real-world significance has been included as suggested. System's components already defined and their operations. Notification to authority was not fully developed since it was not a main objective. Recommendations include expanding functionality corrected and re-casted
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript is scientifically correct, as it accurately describes the system's design, components (IR sensors, microcontroller, ESP32 Camera), and implementation process. The results are well-supported by data, including testing outcomes such as high detection accuracy and reduced response times. However, some points could benefit from further clarification: Provide additional technical details on the violation detection algorithm, including its reliability under different traffic conditions. Discuss the potential limitations of the prototype, such as environmental factors (e.g., fog, heavy rain) or the precision of the IR sensors in highly congested areas. Expand on how ethical use of this technology (e.g., privacy in vehicle data collection) is ensured.	Technical details provided and explained Prototype limitations provided Ethical cases were not this research focus and it is believed that Edo State Government has captured ethical related issues in its transport operational regulations
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references cited are relevant, but there may be room to enrich the discussion with more recent and comparable studies in traffic violation detection and IoT-based traffic management.	Updated

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Is the language/English quality of the article suitable for scholarly communications?	The language is sufficient for scholarly communication; however, a final round of professional language editing is recommended to enhance readability and ensure the manuscript meets high publication standards.	Updated
Optional/General comments	The study is methodologically strong but could benefit from a comparative analysis of costs or efficiency with existing traffic management solutions.	Updated

PART 2:

	Reviewer's comment	Author's comment <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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	NIL