

**LEMBAR**  
**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH : JURNAL ILMIAH**

Judul Karya Ilmiah (Artikel) : Effect of Silicon - Rubber (SR) Sheets as an Alternative Filter on High and Low Contrast of the TOR CDR Phantom

Jumlah Penulis : 8 Orang

Status Pengusul : ~~Penulis pertama/~~ Penulis ke 4/ ~~Penulis Korespondensi~~ \*\*

Identitas Jurnal Ilmiah : a. Nama Jurnal : International Journal of Innovative Research in Advanced Engineering  
b. Nomor ISSN : 2349-2163  
c. Volume, Nomor, Bulan, Tahun : Vol. 6 No. 3, Maret 2019  
d. Penerbit : AM Publications  
e. DOI artikel (jika ada) : 10.26562/IJIRAE.2019.MRAE10082  
f. Alamat web jurnal : https://www.ijirae.com/  
g. Terindeks di Scimagojr/Scopus atau ~~di....~~\*\*

Kategori Publikasi Jurnal Ilmiah (beri ✓ pada kategori yang tepat) : ☒ Jurnal Ilmiah Internasional / ~~Internasional Bereputasi~~ \*\*  
☐ Jurnal Ilmiah Nasional Terakreditasi  
☐ Jurnal Ilmiah Nasional/Nasional Terindeks di DOAJ, CABI, COPERNICUS\*\*

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|                                                                         | Reviewer I     | Reviewer II |                 |
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| b. Ruang lingkup dan kedalaman pembahasan (30%)                         | 5,8            | 5,4         | 5,6             |
| c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)       | 5,8            | 4,5         | 5,15            |
| d. Kelengkapan unsur dan kualitas penerbit (30%)                        | 5,9            | 5,0         | 5,45            |
| <b>Total = (100%)</b>                                                   | <b>19,3</b>    | <b>16,6</b> | <b>17,95</b>    |
| <b>Nilai untuk Pengusul : <math>(20\% \times 17,95)/6 = 0,59</math></b> |                |             |                 |

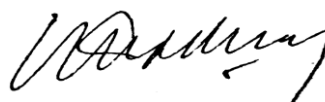
Semarang, 1 Desember 2021

Reviewer 1



Prof. Dr. Drs. Muhammad Nur, DEA  
NIP. 195711261990011001  
Bidang ilmu/Unit kerja : Fisika/Fakultas Sains dan Matematika

Reviewer 2



Dr. Drs. Catur Edi Widodo, M.T.  
NIP. 196405181992031002  
Bidang ilmu/Unit kerja : Fisika/Fakultas Sains dan Matematika

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- f. Alamat web jurnal : <https://www.ijirae.com/>
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Hasil Penilaian Peer Review :

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| a. Kelengkapan unsur isi jurnal (10%)                             | 2                                                    |                                                    |                                                          | 1,8                        |
| b. Ruang lingkup dan kedalaman pembahasan (30%)                   | 6                                                    |                                                    |                                                          | 5,8                        |
| c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%) | 6                                                    |                                                    |                                                          | 5,8                        |
| d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)           | 6                                                    |                                                    |                                                          | 5,9                        |
| <b>Total = (100%)</b>                                             | <b>20</b>                                            |                                                    |                                                          | <b>19,3</b>                |
| <b>Nilai Pengusul = (20% x 19,3)/6 = 0,58</b>                     |                                                      |                                                    |                                                          |                            |

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Artikel telah ditulis sesuai dengan International Journal of Innovative Research in Advanced Engineering diterbitkan AM Publications. . Pendahuluan sudah baik dan menggambarkan pentingnya penelitian ini dan menyinggung secara eksplisit kebaruan dari artikel ini

**2. Ruang lingkup dan kedalaman pembahasan:**

Ruang lingkup bahasan sudah luas, hasil dan pembahasan sudah didiskusikan dengan mengaitkan hasil-hasil dari referensi.

**3. Kecukupan dan kemutakhiran data/informasi dan metodologi:**

Referensi sudah mutakhir. Metoda dapat dipahami oleh mereka yang ahli dibidang ini dan bisa direfleksikan. Diskusi yang dilakukan dalam membahas hasil penelitian ini telah melibatkan referensi yang dijadikan acuan.

**4. Kelengkapan unsur dan kualitas terbitan:**

Penerbitan sudah baik dan jurnal International. Nilai maksimum untuk journal katagori ini adalah 20. Jurnal ditata dengan sangat baik sesuai standard International Journal of Innovative Research in Advanced Engineering diterbitkan AM Publications.

Semarang, 29 Desember 2021  
 Reviewer 1



Prof. Dr. Drs. Muhammad Nur, DEA  
 NIP. 195711261990011001  
 Unit Kerja : Fisika  
 Bidang Ilmu: Fakultas Sains dan Matematika

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Hasil Penilaian *Peer Review* :

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| a. Kelengkapan unsur isi jurnal (10%)                             | 2                                                    |                                                    | 1,7                                                      |                            |
| b. Ruang lingkup dan kedalaman pembahasan (30%)                   | 6                                                    |                                                    | 5,4                                                      |                            |
| c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%) | 6                                                    |                                                    | 4,5                                                      |                            |
| d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)           | 6                                                    |                                                    | 5,0                                                      |                            |
| <b>Total = (100%)</b>                                             | <b>20</b>                                            |                                                    | <b>16,6</b>                                              |                            |
| <b>Nilai Pengusul = <math>(20\% \times 16,6)/6 = 0,55</math></b>  |                                                      |                                                    |                                                          |                            |

**Catatan Penilaian artikel oleh Reviewer :**

**1. Kesesuaian dan kelengkapan unsur isi jurnal:**

Unsur isi jurnal sudah lengkap sesuai dengan tata cara penulisan yang memuat Title, Introduction, Materials and methods, Results and Discussion, Conclution, Acknowledgement dan References. Substansi artikel sesuai bidang ilmu penulis pertama.

**2. Ruang lingkup dan kedalaman pembahasan:**

Substansi artikel yaitu tentang efek silicon rubber sheet pada kontras filter pada fantom untuk pemeriksaan tomografi CT Scan telah sesuai dengan ruang lingkup jurnal, dengan kedalaman pembahasan sangat baik

**3. Kecukupan dan kemutakhiran data/informasi dan metodologi:**

Data-data hasil penelitian sudah menunjukkan ada kebaruan informasi. Pustaka -pustaka yang diacu sesuai dengan tema penelitian dan sebagian besar pustaka adalah mutakhir.

**4. Kelengkapan unsur dan kualitas terbitan:**

Jurnal ini tergolong jurnal internasioanal dengan editorrial board lebih dari 4 negara, Kontributor lebih dari 2 negara, unsur dan kualitas terbitan sangat baik gambar dan simbol jelas terbaca. Indikasi plagiasi dengan Cek Turnitin: Similaritas = 8 % yang artinya jurnal ini bukan hasil plagiat.

Semarang, 23 Nopember 2021  
 Reviewer 2

Dr. Drs. Catur Edi Widodo, M.T.  
 NIP. 196405181992031002  
 Unit Kerja : Fisika  
 Bidang Ilmu: Fakultas Sains dan Matematika

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# FABRICATION OF 360 DEGREE ROTATING WHEEL IN ELECTRIC VEHICLE

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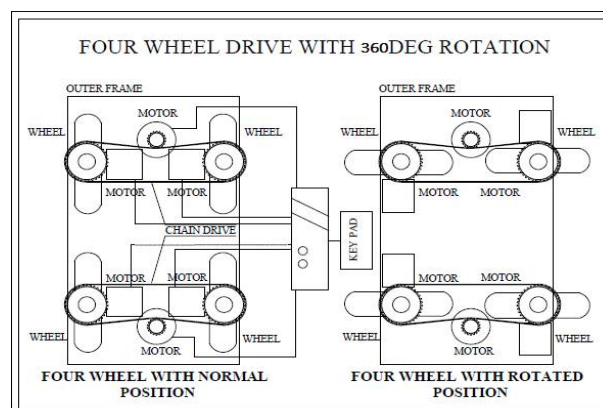
**Abstract:** Main function of car is to move from one place to another place. Most of the people use car in their daily life, but they face the problems like parking, taking U-turns etc... So here we have designed a 360 degree rotating car to eliminate this problem. This design will provide better comfort and also saves the time of customers.

**Introduction:** As mentioned above, this project is about design of 360 degree rotating car to move in all direction. This design will provide better comfort and also saves the time of customers, that's why it is also the reliable for the customer. As it is also battery operated car thus no fuel is required. Hence it is economical to the environment. This will also reduce the cost of the car. The brief about this project and details of design, materials, its estimation etc. described in subsequent section. Most of the people use car in their daily life, But most of the time, they have to face the problems like parking, taking U-turns etc. So here we have designed a 360 degree rotating car to reduce and eliminated problems to maintain the traffic. An automotive manufacturer is a company that produces vehicles.

## Project objective:

- In this vehicle, the wheel of the car is turn to 360degree angle.
- Hence it is easy to take the car from the parking area if any object is placed at front and back side of the car and also avoid the traffic in road.
- The vehicle can able to turn at difficult bends.

## Block Diagram:





# ANESTHESIA CONTROL SYSTEM WITH MULTI SENSOR USING ARDUINO

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**Abstract:** For any operations, the patient being in an anesthetic condition is must. The patient won't feel any pain during the medical procedure using anesthetics. The impact of the anesthesia should be there how long the operation goes and for that, the specified time intervals are administered. What happens if it is not administered at that particular time interval? It will be creating serious health problems and to overcome such unfavorable situations this project has been designed to develop an automatic anesthesia controller using Arduino Uno. The anesthetist can set the amount of anesthesia to be given to the patient. Using the switch panel, the anesthetist can start the process and once the start signal is received by the Arduino Uno it controls all the system, sends a signal to the motor driver to switch on the motors and start infusing the anesthesia. A minimum amount of anesthesia will be injected to the patient body, while doing this the heartbeat will be monitored. After administration it will check whether the heartbeat count is normal or not. If normal, then the second dose of the medicine will be injected. If the heartbeat shows any abnormality then the administration will be stopped and will notify the doctor and continue only after everything becomes normal. Additionally, temperature parameters are checked by corresponding sensors. The keypad switch is also used in case of any urgent manual operation that can be controlled by keypad.

**Keywords:** Arduino; infusion; control; anesthesia; sensors.

## INTRODUCTION

A patient must be anesthetized before any major surgery by the doctors to start their surgical procedure. In case of major surgeries which could take upto 4 or 5 hours, the complete dosage of anesthesia could not be administered in single dose to patient. Since excess dose may cause critical condition to the patient which could lead to permanent unconsciousness. To overcome this problem, the anesthetist need to designed automatic direction of anesthesia based on clinical parameters of patient to minimize future side effects. Anesthesia is very much essential to carryout painless surgery so an automatic direction of anesthesia is essential for a successful surgery. At present in clinical practices an anesthetist employs manual system of anesthesia administration to the patient. This may originate many complexities such as, dose of anesthesia getting varied and chances of getting adverse side effects in future life. Moreover anesthetist may fail to administer the accurate dose of anesthesia for the period of the predestined time which might be disturbed the patient during surgical procedure. The anesthetic processes are recurring and require keen attention of the anesthetist. The incidence of error is drastically reduced due to automatic mechanism of drug administration. In this context, there is a need to automate the processes related to anesthesia to minimize human error, disturbance from routine repetitive activities could be minimized and anesthetist may have more time to take direct care to patient. Now a day's embedded system is used in many applications in medical industries to control various biological and biomedical parameters.

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