



# FABRICATION OF SMART IOT AIR PURIFICATION VEHICLE



A PROJECT REPORT

*Submitted by*

DANIEL A	710419114014
HARIHARAN V	710419114022
NEHRU K	710419114043
SATHEESH KUMAR D	710419114059

*In partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

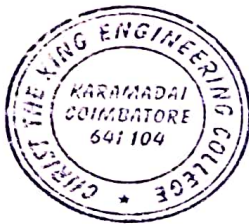
**MECHANICAL ENGINEERING**

**CHRIST THE KING ENGINEERING COLLEGE**

**COIMBATORE**

**ANNA UNIVERSITY: CHENNAI 600025**

**JUNE 2023**



*[Signature]*  
Dr. M. Jeyakumar, M.E., Ph.D.  
PRINCIPAL  
CHRIST THE KING ENGINEERING COLLEGE,  
Chikarampallyam Village,  
Karamadai, Mettupalayam Taluk,  
Coimbatore - 641 104.

ANNA UNIVERSITY: CHENNAI 600025

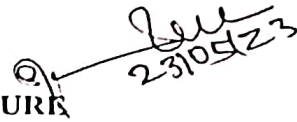
BONAFIDE CERTIFICATE

Certified that this project report "FABRICATION OF SMART IOT AIR PURIFICATION VEHICLE" is the bonafide work of A.DANIEL (710419114014), V.HARIHARAN (710419114022), K.NEIRU (710419114043), D.SATHISH KUMAR (7014191149059) who carried out the project work under my supervision.

  
SIGNATURE

Prof. R. Hari Prasath  
HEAD OF THE DEPARTMENT

Department of Mechanical Engineering,  
Christ the King Engineering College  
Coimbatore-641104

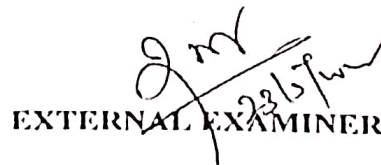
  
SIGNATURE

Prof. S. Prabhu  
SUPERVISOR  
ASSISTANT PROFESSOR


Department of Mechanical Engineering,  
Christ the King Engineering College  
Coimbatore-641104

Submitted for the project viva voice held on 23.05.2023

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER




  
DEM.JEYAKUMAR, M.E., Ph.D.  
PRINCIPAL  
CHRIST THE KING ENGINEERING COLLEGE,  
Chukkarampalayam Village,  
Karamadai, Mettupalayam Taluk,  
Coimbatore - 641 104.

## ABSTRACT

With the tremendous increase in the level of population and mechanization pollution has increased many folds. This results in deterioration of individual health thereby by directly affecting health of entire population. An IOT Based Smart Air Filter is proposed which will monitor the level of temperature and humidity over a web server using internet. Sensors can be deployed at various locations which can sense and collect the data. The big data can be uploaded on the Google cloud which facilitates monitoring from any part of the globe. The temperature and humidity can be displayed on as well as on blink application which makes environment monitoring easy. Smart Air Filter monitoring and controlling system is proposed in this project, which enables us to monitor and check real time quality or the air temperature, humidity in specific region through IOT. In this project we can also control the quality of air pollution by using air filtering.



  
Dr. M. JEYAKUMAR, M.E., Ph.D.  
PRINCIPAL  
CHRIST THE KING ENGINEERING COLLEGE,  
Chikkarampalayam Village,  
Karamadai, Mempalayam Taluk,  
Coimbatore - 641 104.

## CHAPTER 9

### CONCLUSION

The interaction between humans and physical devices and objects is increasing attention. Many studies have attempted to provide a natural and intuitive approach to request services. The current trend of controlling devices with IoT technology offers exciting future developments. The proposed system is also referred on smart-home technology, including the IoT Enabled Air Purifier. The results not only present the key improvement of the Air Purifier system involved in the IoT technology, but also meet the demand of owners. The basic vision behind the IoT, it may have a new way of operational method, it may have a new method of connecting devices, and there might be the even complete clean- slate approach. As the full operational definition is finalized, but there are numerous research issues that can be worked on.



*Dr. M. Jeyakumar*  
**Dr.M.JEYAKUMAR, M.E., Ph.D.**  
PRINCIPAL  
CHRIST THE KING ENGINEERING COLLEGE,  
Chikkarampalayam Village,  
Karamadai, Karampalayam Taluk,  
Coimbatore - 641 104.