

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341050325 A

(19) INDIA

(22) Date of filing of Application :26/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : DEVELOPMENT AND FABRICATION OF SELF DRIVING CAR USING AI

(51) International classification :G05D0001000000, G05D0001020000, G01C0021340000, B60W0060000000, G06K0009620000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)St. Martin's Engineering College
Address of Applicant :St.Martin's Engineering College, Sy no 98,100, Dhulapally Kompally Secunderabad -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. P. Santosh Kumar Patra, Professor, CSE Department
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

2)Dr. D. V. Sreekanth, Professor and HOD, Mechanical
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

3)Dr. A.Uday Kumar, Assistant Professor, MED
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

4)Dr. K. Vijaya Kumar Reddy, Professor , JNTUH
Address of Applicant :JNTUH, Kukatpally, Hyderabad, Telangana, India, Pin code 500085 Secunderabad -----
5)Mr. A. Ranjith, Assistant Professor, Mechanical, SMEC
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

6)Mrs. K. Hemalatha, Assistant Professor, MED, SMEC
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

7)Koyada Chanakya Goud, Student MECH
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

8)S. E. Prince Joseph, Student, MECH
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

9)Chiluka Rohith, Student , MECH
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

10)S Laxminarayan, Student, MECH
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

11)Sanganamoni Chandra Shekar, Student, MECH
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

12)G. Vemula Mahendra Reddy, Student, MECH
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

13)T Krishna Sampath Sastry, Student,MECH
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

14)Gongada Uday Kiran, Student ,MECH
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad --

(57) Abstract :

A self-driving car, also known as an autonomous vehicle (AV or auto), driverless car, or robotic car (robot-car) is a vehicle that is capable of sensing its environment and moving safely with little or no human input. Self-driving car combines a variety of sensors to perceive their surroundings, such as camera, ultrasonic sensor and inertial measurement units. It generates the best navigation path and shows it in the given navigation map from longitudinal and latitude data received from the live GPS receiver. The passengers are updated with the help of speaking module. Advanced control systems with help of AI interpret sensory information to identify appropriate navigation paths, as well as obstacles and relevant signs to safely navigate the vehicle in real world.

No. of Pages : 13 No. of Claims : 6