PLAGIARISM SCAN REPORT

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9. APPLICATION 1.The main application to drivers for achieving the autonomous driving is the reduction of traffic accidents by eliminating human error, increasing road capacity and traffic flow by reducing the distance between cars and making use of traffic management information, relieving the car occupants from driving and navigation activities and allowing them to engage in other activities or rest. 2.The automatic braking system can be used in both light moving vehicles such as two wheelers as well as in heavy moving vehicles such as buses and trucks etc. 3.The system can be implemented in institutional vehicles, taxis, driving school vehicles, etc. Solenoid valves are used in a wide variety of industries. They are used in machinery, devices, and equipment such as refrigerators and automatic faucets. 4.Also from the alert system it will alert to the driver for safety driving like, if camera catches the no horn zone then it alerts to the driver. Also, like speed limiter, pedestrian crossing, school ahead, one way, Etc. Some of the applications of this project are: 1) Used in high speed trains. 2) Used in military application such as spy robot. 3) Used in heavy trucks. 4) Used in heavy vehicles as well as light vehicles 10. CONCLUSION: We built a system where a driver will experience less risk in driving the vehicle. It was a first step towards building an autonomous vehicle or driver-less vehicle. At the primary level the driver will have full control over vehicle but if situations like brake fail, engine failure means there are some scenarios like engine fails suddenly, in such cases this system will do some extraordinary activities like sudden brake. Also, this system gives alerts related to traffic signals such as stop, left, right and also warning signals which passes to the vehicle. Driver will have full control over vehicle but because of this system the driver will ensure no accident will happen if he fails somewhere. 11. INSTALLATION GUIDE AND USER MANUAL Installation Steps: ◻ Raspbian OS installed is on Raspberry Pi 3 ◻ python is already available in Raspbian OS ◻ Installation of required external libraries • . OpenCV- for image processing • Tkinter library -for Graphical User Interface • pygame library -to give output through sound • import sys, signal, time, Rpi. ◻ Add chrome extension - Fatkun Batch ◻ Install Cascade Trainer-GUI tool 12. PROJECT ETHICS As an Information Technology student, we believe it is unethical to, 1. Surf the Internet for personal and non-class related purpose during classes. 2. Make a copy of software for personal or commercial use. 3. Make a copy of software for friend. 4. Loan CDs of software to friend. 5. Download pirated software from the internet. 6. Distribute pirated software from internet. 7. Buy software on single user license and then install it on multiple computers. 8. Share a pirated copy of Software. 9. Install a pirated copy of Software. 14. REFERENCES 14.1 RESEARCH PAPERS: - • M. Rajyalakshmi, B. Kranthi Kumar, A. Krishna Vaibhav, Md Ariefindex Khan "Design and Fabrication of Intelligent Mechatronic Braking System" IJSTE - International Journal of Science Technology & Engineering | Volume 4 | Issue 10 | April 2018 ISSN (online): 2349-784X • Prachi Gawande," Traffic Sign Detection and Recognition Using Open CV" International Research Journal of Engineering and Technology (IRJET) Volume: 04 Issue: 04 | Apr -2017 e-ISSN: 2395 -0056, p-ISSN: 2395-0072 • Hemalatha B K, P Pooja, Chaithra M, Megha S, Rakshitha R T "Automatic Braking System for Automobiles Using IR Sensor" 14.2 Other references: • Coursera platform courses: o Cyber Security and the Internet of Things o Traffic Sign Classification using deep learning in python/keras • https://www.raspberrypi.org/documentation/ • https://amin-ahmadi.com/cascade-trainer-gui/ Training tool for dataset training and testing.

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