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Automated Car Assistant System (ACAS)

Bachelor of Science in Computer Science

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Certificate

We accept the work contained in the report titled "Automated Car Assistant System (ACAS)", written by Mr. Shan e Zain ul Abadeen AND Mr. Saleem Khalid as a confirmation to the required standard for the partial fulfilment of the degree of Bachelor of Science in Computer Science.

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Abstract

Automated Car Assistance System(ISWAS) for Car Driving is a system which is designed for the drivers in such a way that the driver does not get drowsiness while driving a car, monitors the Heartbeat of the driver and monitor the vehicle geographical location to identify car theft, also it will help in vehicle tracking in emergency. If any emergency occurs resulting due to irregular heartbeat or consecutive detection of drowsiness, then windows of car will be automatically turned down and alarm will be generated to the user to prevent the driver's accident on the road.
Furthermore, the health parameters of driver (heartbeat & blood pressure) will be continuously monitored and if any of health parameters exceeds above a standard value, then alarm will be generated to the driver to stop him/her from driving the car. All the system data will be accessible to the users on the web application specifically built for this purpose.
By using this system, car theft can be prevented as it refrains the unauthorised users to drive the car without permission from the driver. So, this is the basic abstract about the developed system of Automated Car Assistance System for Car Driving. The conclusions drawn based on experimental results are documented and finally, some future recommendations are made for further extension of the project.

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"We think someone else, someone smarter than us,
someone more capable, someone with more resources will solve that problem.
But there isn't anyone else."

Regina Dugan

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Acronyms and Abbreviations

DSA	Data Structure and Algorithms
OOP	Object Oriented Programming
PF	Programming Fundamentals
SE	Software Engineering
SQL	Structured Query Language
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNICODE	Unique, Universal, and Uniform Character enCoding
XML	Extensible Markup Language