

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGUAM -590014



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A PROJECT REPORT ON

"EMBEDDED SYSTEM BASED FUEL GAUGE & DIGITALIZATION OF VEHICLES"

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Bangalore-560012)

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BACHELOR OF ENGINEERING
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PROJECT GUIDE

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ABSTRACT

In the recent times we are constantly hearing about petrol bunk frauds. Most of the petrol bunks today have manipulated the pumps such that it displays the amount as entered but the quantity of fuel filled in the customer's tank is much lesser than the displayed value. The pumps are tampered for the benefit of the petrol bunks owner. This results in huge profits for the petrol bunks but at the same time the customers are cheated. All the vehicles in India consist of analog meters hence it is not possible to precisely know the amount of fuel currently in the vehicle and also it is not possible to cross check the quantity of fuel filled in the petrol bunk. In this project we focus on creating a digital display of the exact amount of fuel flowing into the vehicle's tank so that it helps in cross checking the quantity of fuel filled at the petrol bunk. This project also focuses on evading the problems faced by the drivers like automatically detecting & avoiding the accumulation of vapour on the windshield due to variation of temperature. And it is very common that people do not bother about tire pressure but it is also crucial for a good mileage and condition of the vehicle so we have equipped a unit to check the tire pressure. And we also introduced an alerting system for the driver about the traffic sign board as he passes by.