VEHICLE DIAGNOSIS SYSTEM

"Creativity is seeing what others see and thinking what no one else ever thought $\mathfrak{G}_{\mathbb{Q}}$ "

-Albert Einstein

Hello friends, I am glad to share you our innovation (VEHICLE FAULT DIAGNOSIS SYSTEM) which was implemented in our ELECTRIC SCOOTER for SAEISS Dr. G Padmanabham Electric Two Wheeler Design Competition 2022 grand finale held at SRM Institute of Science & Technology organised by SAEINDIA Southern Section.

PROBLEM DESCRIPTION:

We can't fix the electric vehicle if we don't know what's wrong with it. Without a proper diagnostic process, most of the time the user or the mechanical fail to understand the root cause for the failure.

SOLUTION:

Our VEHICLE FAULT DIAGNOSIS SYSTEM easily identifies the supply problems to the various parts of the scooter such as motor, dashboard, lighting, controller, throttle, etc.., supplied from the battery. If any fault occurs in the supply connection between the parts, specific LED indicate that fault to the user/mechanic. So that, we can easily diagnosis the problem fast.

TECHNICAL DESCRIPTION:

Here, we design simple electronic system to monitor the power supply lines between parts from the battery. The supply lines are connected to the NOT Gate IC through the voltage regulator and the LED is connected at the output of the IC. This circuit is seperately powered by a 12V battery. During normal conditions, the LED is off. If any fault occurs, then the LED will turn on to indicate the problem.

Note: This like problem statement is also mentioned in the prestigious event L&T Techgium 2022 organised by L&T Technology Services.

The link is given below https://lnkd.in/grJgmZyJ







