

Abhikarthik P P

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49 PROJECT

E-BIKE: READY, SET, GO!



This electric motor-powered bike reduces the usage of fossil fuel powered vehicles.

Features

- Alternate materials to reduce both static and dynamic forces in pursuance of improving the efficiency and performance of the bike
- Detailed design of subsystem like chassis frame, handle and suspension, electric power train and braking mechanism has been done effectively
- The frame has been designed to ensure the safety of the rider under maximal impact load conditions
- The motor, the heart of the electric vehicle is an induction motor that performs well for an extended time
- Speed control is maintained using the voltage regulator
- The bike is provided with a chain drive to achieve maximum efficiency while transmitting the power from the motor to the wheels
- Drum disc brakes provide smooth and effective braking under both dry and wet conditions
- Bike tires are used to provide more traction