

ELECTRICAL POWERED BICYCLE

Fab Academy 2019 | Mr. Jay Dhariwal



Description: The objective of this project is to design an Electric Bike. One of the simplest ways to get started would be to convert an existing bicycle to a solar powered electric bike. Firstly, the bicycle would be converted to an electric bike.

Detail Description: Electric Vehicles are the future for the world as they can reduce carbon emissions. But there is an urgent need for Electric Vehicles in India. The primary reasons being vehicle emissions responsible for poor air quality in most of the Indian cities and India's heavy dependence on the import of oil. The main advantage of this vehicle is that it can be controlled by solar power. For a hot climate such as New Delhi, India, a sun-shade might also be added to make the user experience thermally comfortable. The motor may also be made to act as a generator to charge the battery with pedal power. The bike might also have a smart phone mount with the sensor data for speed, ambient temperature, etc. displayed in a mobile app via Bluetooth. This project has tremendous possibilities to extend it to the design and fabrication of an electric two, three or four wheeler.