



Design and Construction of smart transport with renewable energy

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Abstract:

The renewable energy is vital for today's world as in near future the nonrenewable sources that we are using are going to get exhausted. The solar vehicle is a step in saving these nonrenewable sources of energy. The basic principle of solar car is to use energy that is stored in a battery during and after charging it from a solar panel. The charged batteries are used to drive the motor which serves here as an engine and moves the vehicle in reverse or forward direction. The electrical tapping rheostat is provided so as to control the motor speed. This avoids excess flow of current when the vehicle is supposed to be stopped suddenly as it is in normal cars with regards to fuel. This idea, in future, may help protect our fuels from getting extinguished. Energy is one of the most vital needs for human survival on earth. We are dependent on one form of energy or the other for fulfilling our needs. One such form of energy is the energy from fossil fuels. With regard to this idea we have designed an Electrical vehicle that runs on solar energy. The vehicle designed is a three wheel drive and can be used for shuttle and short distances. As these vehicles form the future of the automotive industry, we need to concentrate on improving their design and making them cost effective. This vehicle is an initiative in this direction. Today, while solar cars test the ultimate boundaries of energy efficiency, they also provide incredible insights into the capabilities of everyday vehicle technology. These innovations are at the heart of all electric cars, whether that power comes from hydrogen



fuel cells, hybrid engines or even fully-electric commuter cars that draw power from solar cells on the garage roof – they all use the technology that is continually honed to perfection in the World Solar Challenge. Utilizing no more than six square meters of solar panels, some of the world's brightest young minds are on track to develop the most efficient electric vehicles possible. And every two years, teams from leading international universities and technical institutes, together with private entrepreneurs, come together Down Under to test and promote the ultimate synergy of nature, motion and innovation.

Biography:

Md. Rahatul Islam a Bangladeshi citizen. He is a final year student of B.Sc in Electrical and Electronic Engineering (4-years Bachelor of Engineering) at Canadian University of Bangladesh(CUB),Dhaka, Bangladesh. Currently, He is a research assistant at Canadian University of Bangladesh.He is the CEO & Vice-President of Bangladesh Advance Robotics Research Center. He is the chief of the governing body at The Robotics Society of Bangladesh.

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