REMOTE CONTROL PROPELLER TRAIN

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ABSTRACT

The project's main aim is to produce a train which is initially powered by an external source, a diesel engine or an electric motor, which in turn will drive the propeller mounted on the front of the train, where it will rotate, due to the air pressure caused by the movement of the train, thus generating energy which will be used to power up the motor in the train, sustaining the movement of the train. The direction of the train should be able to be remotely controlled with a remote control device, which should be designed and integrated to provide control over the train.

The objectives of the project is to design a train running with the air pressure developed by the propeller blade, design a remote control unit to control the direction of the train, design a power generating circuit, research and run proper field work inspection and to plan and design the train station and track.

In this project, the mechanical field involves the design of the concept of operation for the train, acquiring the proper electromechanical device for the power generation circuit and to handle the integration of the electromechanical device on the circuit. As for the civil field, it involves the study and research on field work inspection, to design a train station and to design the track interchange. For the electrical and electronic pat it is needed to design a remote control and its respective response circuit to provide control over the train.