

Designing an Innovative Steering Propulsion Tricycle for Individuals with Disabilities: Enhancing Mobility and Independence

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Abstract

The mobility of physically disabled persons could be a regarding social issue these days. Numerous hand-driven tricycles, wheelchairs, retrofitted vehicles, etc. are normally available for disabled individuals as a mode of transportation. The essential wheeled vehicle could be a simple machine style, pedaled by disabled persons at intervals on the side and seated at intervals in the center for sitting arrangement. They use only 1 hand to steer the handle as a result different hand is employed to rotate the pedal. Our aim is to style and fabricate an occasional worth wheeled vehicle for handicapped people to be propelled by the novel link mechanism hooked up to the steering column changing into cranking, victimization the advantage of leverage, with correct balance and distribution of mass and centre of gravity to crank the wheel shaft for propellant. As he can use each of his hands on the steering, higher management of the vehicle is ensured.

Keywords: Tricycle, Steering Propulsion, Slider crank mechanism