TENTATIVE TITLE: **MOBILITY AID DEVICE FOR WHEELCHAIR USERS TO BE USED IN A RAILWAY SYSTEM**

Abstract:

People with physical disabilities and elders generally find it difficult to board the vehicles, especially when it comes to entraining, detraining and traversing within the train compartments and railway stations. Several mobility assistive devices like manual and powered wheelchairs, modified electric scooters etc. are available for Persons with Disabled (PWD) to locomote in public places. But, there are no devices that enable them to board a train and traverse to their seat and also aid them in transferring from one surface to another. The objective of this work is to develop a simulation model of a complete locomotion system specifically designed to enable locomotion in railway platform, entrain/detrain and self-transfer whenever necessary. The control system of the proposed device will be developed using MatLab software and will be integrated with the developed model using the simulation framework CoppeliaSim.

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