

Smart Trolley with Automatic Master Follower using Microcontroller

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Abstract: Nowadays, supermarkets are almost developed with much technological advancement. People purchase different items from the supermarkets and put them into a trolley because it is the easiest method used in supermarkets to carry goods. However, throughout the whole process of shopping, customer must push the trolley manually by their own effort and when it comes to the billing process customers must wait in long queues to pay their bills. This is a time wasting process due to the busy schedule of people. To avoid these problems the research group have introduced an effective and highly advance system. Although there is some existing Smart Trolleys which includes some of the above mentioned aspects there is no proper multifunctional automated trolley to make shopping life easier. The research "Follow Me" has developed a multifunctional trolley which makes shopping life easier and convenient to customers. Follow me consists of series of technologies such as automatic human guided travelling with use of anPIC controller. The research group has provided an accurate, user friendly smart shopping trolley to make customers shopping life more convenient and easier..

Keywords: Follow Me, Smart Trolley, Ultrasonic Sensor, Automation, Microcontroller

