

FOLLOW ME CARRY-ON CART

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ABSTRACT

The traditional way of carrying bags on your back or holding plastic bags to carry and lift items have caused physical issues and was a hassle for a lot of people that had better things to take care of within that time like making sure their kids are safe or being an elderly person unable to lift 10kg of items. and not to forget those people that had some sort of disability making them unable to carry items. Within this project we plan to address a way to make life easier for those people in need!

This issue will be resolved with our project, the “Automated Follow-Me Cart”. by developing a product that can safely follow behind you while holding and keeping your items safe, giving you minimal need of concern and a load free carrying cart up to 50kg worth of weight.

With some other projects being close in similarities with what we plan to do, some use components that others don't. We plan to combine these components from different research and make a cart that will satisfy all your needs and desires as a recipient of the product. our project would be more suitable for daily life use, rather than specific uses. In addition, it could help more of humanity and give them the courage to accept technological advancements into their daily life.

We have used the most updated version of raspberry pi 4 with a RAM size of 4gb. In addition, we used a HQ camera that is related to raspberry pi with a lens of 6mm. with these components, we added a weight sensor to give a warning signal for the user in case of exceeding the acceptable weight. finally, we will add 2 motors of 250w and 24v as well as 4 wheels of size 8cm in diameter, and a 20A motor driver made by cytron.