

# Expo Rekacipta & Pameran Penyelidikan UniMAP 2009

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# SMART GAS TROLLEY



## NOVELTY OF INVENTION

A Smart Gas Trolley is invented to assist the users to move the gas tank up and down the stairs.

## OBJECTIVE

- To develop the smart gas trolley that can easily lift the gas tank and move it from one place to another place.
- To carry the cooking gas tank up and down the stairs.

## PROBLEM STATEMENT

- Difficult to lift the cooking gas tank by hand.
- Difficult to carry all the way in stair case.
- Human hand gets tired when lifting the gas tank.
- Difficult for women to lifting the gas tank because it's heavy product.

## SUMMARY OF INVENTION

Smart Gas Trolley is developed based on the problem statement voice from the target customer especially from housewife, gas seller, restaurant worker and also people who are stayed at apartment or flat. The solutions have been proposed through the design process which aim to design the smart gas trolley that has the ability to lift the gas tank from one place to another and to carry the gas tank up and down the stairs. To generate this product we identify the problems, customer need and also potential market. Then followed by Product Specification, Concept sketches, final concept Selection specification, Technical Drawing, Modeling and Prototyping.

## ADVANTAGES

- Portable and easy to handling
- Minimum human energy
- Friendly environmental
- Safe and clean



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