

INSTITUTION'S INNOVATION COUNCIL MOE'S INNOVATION CELL

Institute Name:

Panimalar Engineering College

Title of the Innovation/Prototype:

Affordable Muticontrol smart vacuum bot

Team Lead Name:

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Team Lead Phone:

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Team Lead Gender:

Male

FY of Development:

2022-23

Developed as part of:

Independent Assignment/Non-academic Study Project

Innovation Type:

Product

TRL LEVEL:

3

Theme:

Sustainable Enviroment,Consumer Goods and Retail,

Define the problem and its relevance to today's market / sociaty / industry need:

Do you organize time for cleaning? Afraid of allergen? Afraid of pet hair? For you cleaning a dole? Cleaning the floor torments you? Can't afford it easily (smart vacuum cleaner)? Home or in the industry, Cleaning is a matter of fact. There is a saying "Every drop of water makes an ocean". So showing individuality in cleaning makes the world a better place.

Describe the Solution / Proposed / Developed:

Our vacuum cleaner saves time and energy. Removes dust and pet hairs. Removes allergen from breathing air with equipped HEPA(future advancement). Discern the quality of dirt and set setting. It overcomes the role of servant. Our vacuum cleaner is a low-cost tool.

Explain the uniqueness and distinctive features of the (product / process / service) solution:

Low Cost and ECO-friendly. With Self Made Microcontroller board(Using ATmega328P) as Printed Circuit Board(PCB). Manual and Automatic mode is it's Distinctive ability. Audio Recognition Mode. Suction as well as Ejection Mode.

How your proposed / developed (product / process / service) solution is different from similiar kind of product by the competitors if any:

Low Cost. Multi-controlling Mode. Easy to access. In-house built customized microcontroller board(ATmega328p). Functioning as Sucker as well as Ejector

Is there any IP or Patentable Component associated with the Solution?:

No

Has the Solution Received any Innovation Grant/Seefund Support?:

Yes

Are there any Recognitions (National/International) Obtained by the Solution?:

No

***Is the Solution Commercialized either through Technology Transfer or Enterprise Development/Startup?:**

No

Had the Solution Received any Pre-Incubation/Incubation Support?:

No

Video URL:

<https://drive.google.com/file/d/1tsakMWzXoYtzKHYe58bjxdjWq4tv4Rhr/view?usp=drivesdk>

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