

INSTITUTION'S INNOVATION COUNCIL MOE'S INNOVATION CELL

Institute Name:

Vardhaman College of Engineering

Title of the Innovation/Prototype:

Mechanical Helper Hand

Team Lead Name:

S. Tejasree

Team Lead Email:

sunkaratejasree21ads@student.vardhaman.org

Team Lead Phone:

8978041491

Team Lead Gender:

Female

FY of Development:

2022-23

Developed as part of:

Academic Requirement/Study Project

Innovation Type:

Product

TRL LEVEL:

4

MRL Level:

MRL 4: Capability to produce the technology in a laboratory environment

IRL Level:

IRL 1: Basic Research (Need Identification & Peer Review Publications) & Completed First-Pass Business Model Canvas (BMC)

Theme:

Healthcare & Biomedical devices.,Robotics and Drones.,

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

There are individuals who've limited mobility that could substantially impact their capacity to carry out day by day responsibilities independently. The mechanical helper hand is a robot tool that is designed to assist elderly and specially-abled individuals.

Describe the Solution / Proposed / Developed:

A mechanical helper hand is a robotic device that is designed to assist individuals who have limited mobility or strength. It is typically composed of a series of joints and mechanisms that allow it to move and drag objects. Mechanical helper hands can be controlled in several ways, including by using joysticks, buttons, or other input devices.

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

We use Dual Actuators and Wheels ,Live Streaming Camera ,Advanced Control Modules, These modules enable seamless communication between components, data processing, and user interaction .The project also addresses the potential impact of the Mechanical Helper Hand on the lives of elderly and specially-abled individuals.

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

Compared to other products our product is customizable to different user needs. Uses live streaming camera & SOS feature in the case of emergencies.

Machine learning algorithms are used for mapping and learning the work environment.

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

No

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

No

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://youtube.com/watch?v=9oXfJSdT3Yc&feature=share7>

Innovation Photograph:

[View File](#)

Downloaded on: 15-08-2023

This report is electronically generated against Yukti - National Innovation Repository Portal.

MAIL: sunkaratejasree21ads@student.vardhaman.org

PW: [\\$indhu22](#)