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Dept. of ARTIFICIAL INTELLIGENCE & DATA SCIENCE







VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified

Kacharam, Shamshabad, Hyderabad – 501218, Telangana, India







EPICS - PRODUCT EXPO – 2K23

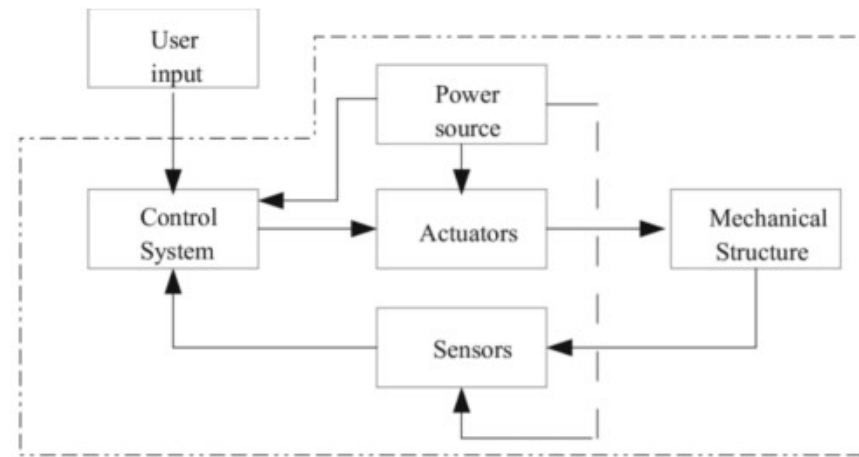
Faculty Mentors

1. Dr. M. Naresh Kumar
2. Dr. Rama Krishna

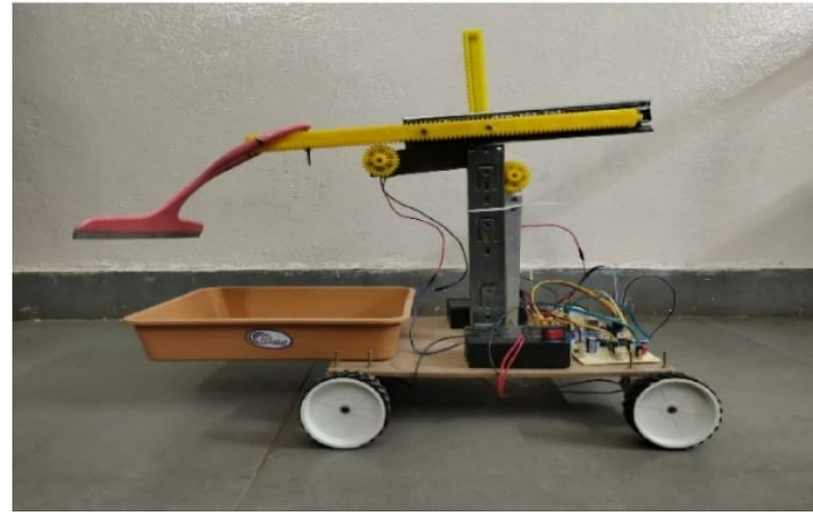
Mechanical Helper Hand

<div>Objectives</div> <ul style="list-style-type: none"> ✓ The main objective of this project is to help the specially abled and elderly people who are partially immobilized. 	<div>Need Statement</div> <ul style="list-style-type: none"> ✓ People who are immobilized feel that they are dependent and burden. ✓ Our project helps them be independent and make them feel better. 	<div>SDG & Sub-SDG</div> 
<div>Details of Community Partner</div> <ul style="list-style-type: none"> ✓ Name of Person: Karthikeyan ✓ Age: 20 ✓ Occupation: Student(specially abled) ✓ Location: Devarakonda ✓ Mobile Number: 6303032822 	<div>Detailed Specifications</div> <ul style="list-style-type: none"> ✓ A mechanical helper hand is a robotic device that is designed to assist individuals who have limited mobility or strength in their hands and arms. ✓ It is typically composed of a series of joints and mechanisms that allow it to move and place objects into cushioned tray with good precision. ✓ Mechanical helper hands can be controlled in several ways, including joysticks other input devices, it can also be operated using mobile. ✓ Additionally, they can be customized to meet the specific needs of individual users. 	<div>Detailed Budget</div> <ul style="list-style-type: none"> ✓ Wheels RS-2500/- ✓ Actuators(300mm) RS-4500/- ✓ Others RS-5000/- <p>Cost of Product/Process: Rs. 12,000 /-</p>

Architecture/Block Diagram/Concept Design



Product Picture



Feedback of Community Partner

- It is an absolutely great product. it is really helpful in fetching the objects near around me. As I am immobilized due to an accident, it made a great impact in my life.
- I would suggest to people who wants to be independent like me.