

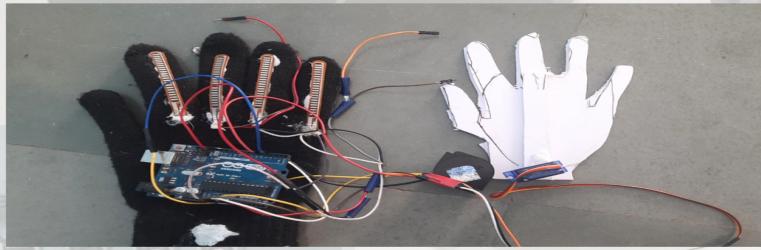


**Vidya Vikas Institute of Engineering
and Technology**

FlexiHand Assist Glove

PROBLEM STATEMENT:

A Disabled person is struggling for our daily life like eating, dressing, walking and that person is dependent on another person. The main goal is to help the people with disabilities by assisting them in their daily activities with help of FlexHand Assist Glove.



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■ FlexiHand Assist Glove

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■ Problem Statement

A disabled person struggles in daily life — eating, dressing, walking — and depends on others. The main goal of FlexiHand Assist Glove is to help such people perform their daily activities independently using smart motion sensors and servo assistance.

■ Objective

To develop a wearable assistive glove that detects finger movement using flex sensors and replicates the motion with servo motors, allowing smoother and autonomous control for disabled users.

■■ Technologies & Components Used

Arduino UNO, Flex Sensors, Servo Motors, Jumper Wires, Battery Module, Embedded C, Arduino IDE.

■ Outcome

FlexiHand Assist Glove uses motion sensors to detect finger movements. When the fingers flex beyond a threshold, servo motors trigger a response. Arduino integration allows communication with guardians, improving safety and usability.

■ Future Scope

Integration of GSM for alerts, remote monitoring, voice control, and ergonomic glove design.

■■■■■ Team Members

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