National Level Project Exhibition 2024

Smart WheelChair Control by Head Motion

-Team Techo

Title:

- **Title:** Smart Wheelchair Using Motion Sensor and ESP32
- Subtitle: Controlled by Head Movements
- Presented by: Harshul Goswami
- College/Institution: SKIT College

Introduction

Overview of the Project

- The project involves building a smart wheelchair controlled by head motion.
- Technologies used: ADXL330 accelerometer, ESP32 microcontroller, and relays.

Objective

 To help individuals with mobility impairments move with minimal effort using head gestures.





Applications

- Real-World Use Cases:
 - i. Healthcare Facility
 - ii. Public Places
 - iii. Telemedicine and Remote monitoring
 - iv. Assisted living facility
 - v. Smart home integeration
 - vi. Home use for elderly or disabled indivisuals



Thank You