

Voice Controlled Hospital Bed

Abstract:

- The "Voice Controlled Hospital Bed" project involves the development of a smart hospital bed system that can be operated and controlled using voice commands.
- This project leverages voice recognition technology, actuators, and a microcontroller-based control unit to enhance patient comfort and caregiver efficiency in healthcare settings.
- The primary objective of the Voice Controlled Hospital Bed is to provide patients and caregivers with a hands-free and intuitive method of adjusting bed positions and settings.
- The system integrates components such as voice recognition modules, motorized actuators for bed adjustment, safety sensors, and a user interface for interaction.
- Future enhancements could focus on expanding voice command capabilities, integrating health monitoring sensors (e.g., heart rate, temperature), and incorporating connectivity for remote monitoring and control by healthcare professionals.

