

Joystick Controlled Wheelchair Bed

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Abstract: *This paper presents a biometric face recognition system designed specifically for identifying missing persons and generating instantaneous reports containing their detailed information. The system employs advanced facial recognition algorithms to compare scanned facial data against a database of registered individuals. Upon successful identification, the system automatically alerts registered family members through messaging services and provides the current location of the identified individual. The dual-interface application segregates functionality between administrative and user dashboards, ensuring data security while enabling efficient information management. Experimental results demonstrate the system's effectiveness in real-world scenarios with varied lighting conditions and partial facial obstructions, achieving an identification accuracy of over 90% in controlled environments.*

Keywords: Wheelchair with bed conversion, Electric wheelchair bed, Assistive mobility device, Futuristic Assistive Device