

Design and construction of a multifunctional hospital bed model based on Arduino platform

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Abstract: This project aims to design and build a multifunctional hospital bed model based on the Arduino platform to meet the needs of home healthcare. Through theoretical research combined with experimentation, the goal is to improve patients' quality of life by enabling flexible lying position adjustments and other support services. The expected results will contribute to enhancing medical work efficiency while promoting the application of Arduino technology in the healthcare field.

Keywords: Multifunctional hospital bed, Arduino, Home healthcare