

Research on designing and manufacturing an intravenous infusion monitoring system in hospitals

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Abstract: This topic aims to research and design an automated system for monitoring intravenous infusion processes in hospitals. The context arises from the need to effectively manage the amount of medication infused into patients, ensuring safety and minimizing errors during treatment. The objective is to build a system capable of automatically monitoring, alerting medical staff about patient status, and providing timely information to doctors. The research method is based on a combination of automation technology theory and experimentation at medical facilities. The expected outcome is a safe management system that saves time and increases work efficiency.

Keywords: automation system, infusion monitoring, hospital, safety management, medical technology