

Design of environmental monitoring and control circuit for livestock farming in households

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Abstract: This study aims to meet the need for improving animal care conditions in household livestock farming by designing an effective environmental monitoring and control system. The objective is to build an integrated IoT technology solution to automate the monitoring of temperature, humidity, oxygen, and air quality, while providing remote control capabilities for farmers. The approach includes theoretical research on the rules of livestock environments suitable for households combined with experimental application deployment on an IoT platform. The expected outcome is to minimize the risk of stress and disease in animals, thereby increasing productivity and product quality.

Keywords: IoT, Livestock environment monitoring, Automatic control