

Design and construction of a smart farm monitoring and control system model based on the Arduino platform.

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Abstract: This topic aims to research and design a smart farm monitoring and control system based on the Arduino platform, meeting the automation needs in the agricultural industry. By applying sensor and signal processing technologies, the topic aims to optimize agricultural production processes, reduce labor costs, and increase production efficiency. The research method includes both theoretical and experimental aspects, with the deployment of the application at a model farm to verify the system's effectiveness. The expected result is a comprehensive solution to improve productivity and sustainable management for smart farms.

Keywords: Smart farm, Arduino, Automatic monitoring, Sensors, Production optimization