

Design of a circuit for measuring and regulating temperature and humidity for the Thai Ninh clean vegetable garden.

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Abstract: This topic focuses on designing an automation system for a clean vegetable garden in Thai Ninh, including the processes of measuring and adjusting temperature and humidity. The practical context shows the need to improve environmental management efficiency in agriculture to enhance product quality and minimize waste. The objective of the topic is to build an automation system combining theoretical methods with experimentation to optimize plant growth conditions. The research method is based on referencing modern technologies in the fields of sensors, electronics, and PLC programming to deploy a suitable application at the site. The expected outcome of the topic is to provide a practical solution for sustainable agriculture, while contributing to the development of smart technology in agriculture.

Keywords: Agricultural automation, Environmental sensors, Applied electronics, PLC, Sustainable agriculture