

Design of control and monitoring system for dried longan production line using PLC S7-300

Dao Ngoc Thanh

Abstract: In the context of food industry development, optimizing the production process of dried longan is an important issue to ensure quality and enhance economic efficiency. This topic focuses on designing a control and monitoring system for the production line using the PLC S7-300 to address the automation and control of the drying process. Through theoretical research combined with experimentation, the project aims to build an efficient, energy-saving system suitable for small-to-medium scale production. The results of the topic are expected to provide a comprehensive solution for agricultural processing plants, contributing to the development of automation technology in the food industry.

Keywords: PLC S7-300, Automatic control, Production process optimization, Dried agricultural products, Food industry