

Design of a supervisory control system for a fabric drying production line using PLC S7-400

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Abstract: This topic focuses on the design and implementation of a supervisory control system based on the PLC S7-400 in the fabric drying production process. The context of the topic arises from the practical need to improve quality management and performance of the fabric production line. The objective of the research is to build an automation system to optimize the fabric drying process, ensuring uniform output quality. The research method includes analyzing technical requirements, selecting an appropriate PLC configuration, and implementing the control program. The expected results provide significant contributions in terms of practical application, enhancing productivity and reliability of the fabric production process.

Keywords: PLC S7-400, automation, monitoring system, fabric drying process