

Design of control and monitoring system for tomato color sorting using PLC S7-1200

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Abstract: In the context of the need to optimize agricultural production processes, this topic focuses on designing and implementing an automation system using the PLC S7-1200 for the purpose of sorting tomatoes by color. The objective of the research is to build an effective solution for monitoring and controlling the sorting process, helping to increase productivity and reduce labor costs. The approach combines theory with experimentation to ensure the feasibility of the system. The expected results of this topic not only provide a specific solution for the agricultural industry but also contribute significantly to the development of automation technology in this field.

Keywords: PLC S7-1200, tomato classification, agricultural automation