

Design of a color-based product sorting and counting device using Arduino

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Abstract: In the current context, automating production processes is essential to improve work efficiency. This topic focuses on the development of an automatic color-based product sorting and counting system using Arduino as the technical platform. The main objective is to create a flexible, cost-effective solution to enhance goods management in food processing factories. The research method includes both analyzing the current situation and experimentally designing the system with Arduino. The expected results bring digital transformation to the production process, contributing to the development of Industry 4.0.

Keywords: Arduino, Automatic Classification, Goods Management, Industry 4.0, Automation