Build a production conveyor product counting module

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Abstract: This topic focuses on building an automatic product counting system on conveyor belts in industrial production processes. This is a necessary issue to improve the efficiency and accuracy of product quality control. The objective of the research is to develop a solution based on sensors and digital signal processing to accurately count product units moving on the conveyor belt. The research method includes collecting real-world data, designing counting algorithms, and integrating the system into the existing production environment. The expected result is an effective solution that can be widely deployed in the manufacturing industry to improve production process management.

Keywords: Automatic measurement, sensors, digital signal processing, product quality control