Abstract

This paper aims at designing an automated system to monitor the production in a pencil industry. The objectives of this work is to count the number of pencils in each pencil case and compare the results to check if desired number of pencils are present. The packets where the number of pencils are not equal to desired is diverted from production line, rest cases which pass the quantity check is counted and further processed. The whole system is carried on with the help of image processing technique utilizing the LabVIEW platform without disturbing the high speed production line. The images of pencil cases are captured using a high frame rate smart camera, then acquired on to the PC through RS232 port and processed using LabVIEW.
platform. The proposed technique was subjected to test on a real time system and found operating successfully with 98% accuracy.

References

Quantitative Fault Analysis on Pencil Case using Image Processing

- Accepted at conference:
- Cosgriff, R. L., "Identification of Shape", Ohio State University Research Foundation, Columbus, Rep. 820-11, ASTIA AD 254 792, 1960.
- Cootes, T. F. and Taylor, C. J., "Active Shape Models - 'Smart Snakes'", Department of Medical Biophysics, University of Manchester, 1992.

Index Terms

Computer Science Software Engineering

Keywords

Automation Labview Vision.