

Design of an attendance machine model combined with body temperature measurement using RFID technology

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Abstract: This topic focuses on the design and implementation of an attendance machine system integrated with body temperature measurement capabilities, using Radio-Frequency Identification (RFID) technology to enhance accuracy and efficiency in employee control processes. The context of the topic is based on the practical need to realize employee health monitoring while ensuring security in the work environment. The objective is to build a comprehensive solution including an RFID identification system combined with a temperature sensor, and to conduct a trial deployment at a business to verify the system's effectiveness. The research method is based on a combination of theoretical design and experimentation. The expected result is to provide an advanced technology application solution for human resource management, contributing to the research field of automation in access control and industrial health.

Keywords: RFID, timekeeping, body temperature measurement, human resource management, automation technology