
Design and construction of a display system for systematic monitoring of the noodles steaming process at a local industry

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The study was done at a prominent consumer goods manufacturing company in the southern province of Sri Lanka. Noodles are one of their products of high demand. Therefore, the company needed a systematic and comprehensive monitoring system for the noodles steaming process to enhance its efficiency. An embedded temperature acquisition system was designed for the steaming cupboard. The temperature acquisition is made with a temperature sensor and a microcontroller. The control panel includes a synchronizing temperature display with time, buzzer and a time setting buttons (keypad). The SSDs (Seven Segment Display) are used to display the temperature and time. The buzzer is used to signal the completion of the set time. Temperature is sensed using an analog sensor and ADC (Analog to Digital Convertor) of microcontroller is used for the acquisition. Temperature output is displayed digitally in SSDs using a high-level programming language.

Key words: Microcontroller's Analog to Digital Convertor, Temperature sensor, SSD

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