

DESIGN AND CONSTRUCTION OF AN AUTOMATIC INSTANT NOODLE VENDING MACHINE

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ABSTRACT

The increasingly rapid development of technology influences almost every aspect of human life, including the ever-growing world of culinary and marketing. Technology plays an important role in making various activities easier, so the need for fast and practical solutions is increasing. Currently in Indonesia, in the process of marketing or selling products such as instant noodles, which are a favorite choice for many people, they still rely on public services, namely face-to-face meetings between sellers and buyers. This research aims to design an instant noodle vending machine. This machine can display the number of coins and remaining stock on the LCD screen after the coins are inserted. Users can select menus by pressing the push button, which then activates the servo motor to rotate the spiral. The proximity sensor functions to display the amount of instant noodle stock, the servo motor stops after rotating 360 degrees. The test results showed that the success rate of the tool was 83.3%, so an error of 16.7% was obtained. This tool uses around 0.7718 kWh of power.

Keywords: Instant noodle vending machine, Arduino Uno, Servo motor.