

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAUM – 590018

KARNATAKA



PROJECT REPORT
ON

"PSOC IMPLEMENTATION OF A NEWSPAPER VENDING MACHINE CONTROLLER"

(Sponsored by Karnataka State Council for Science and Technology)

SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE AWARD OF THE DEGREE.
BACHELOR OF ENGINEERING IN
ELECTRONICS & COMMUNICATION ENGINEERING

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SYNOPSIS

All that makes human being stand different from other living beings is his *COMMUNICATION*.

NEWSPAPERS have proved to be the effective means of communication over years across the globe. This project is to make the newspapers available for the costumers in an advanced and convenient way by the best use of electronic controller by the name Programmable System on Chip, which is abbreviated as *PSOC*.

A News paper vending machine is programmed by routines written in PSoC assembly language. The vending machine coin sorter logic determines which coin has been deposited. If exact change has been entered, then the unlatch output signal is generated, so that the customer can get the news paper. If the amount of money exceeds the price of a news paper, then change is given back along with the news paper. If the machine has insufficient change, the customer's coins are refunded by issuing the refund output signal, and the unlatch signal is not generated.

The money deposited by the customer is kept separate from the change repository. If there is enough change in the repository, then it is to be paid using minimum amount of coins. The refund amount is displayed on the LCD screen.

For implementation of the project PSoC Designer tool is used. Device Editor Subsystem is used to select the PSoC IC CY8C29466. The Application Editor Subsystem is used to simulate the code. The Debugger is used debug the program. Further it is interfaced with the Input-output Devices.

News paper vending machine is very helpful for smooth distribution of news paper. It fulfills the need of customer at all the time. This News paper Vending machine controller can be implemented in Public places like Air ports, Railway stations, Bus Stations and Parks for better utilization.