Abstract

This work presents the design of an intelligent controller for a composting process. It is designed around Texas Instruments ultra low powered MSP430F1232 microcontroller chip, Cypress semiconductors CYWM6935 wireless module for establishing a RF link between the two MSP430 microcontrollers. Composting provides environmentally and economically sustainable solution for promoting organic farming. Our work is a small step in developing a low cost and efficient control system for a compost manufacturing process which can be applied by farmers to produce nutrient rich, high quality organic fertilizer.

Reference

- Jerry Luecke. Analog and Digital Circuits for Electronic Control System Applications
An Ultra Low Powered MSP430 Microcontroller Based Control System for a Composting Process

- Scott Inglis, Peter Wright, Curt Gooch. Computerized Control System for Static Pile Composting of Dairy Manure. American Society of Agricultural Engineers (ASAE) Meeting Presentation, Paper Number: 024140.

Index Terms
Electronics
Microprocessor/
Microcomputer Applications

Key words
Microcontroller
composting
transmitter
receiver