

Radio frequency identification based attendance system



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Declaration

I declare that this thesis was composed without plagiarism and work contained here is my own basic theory that I studied from literature and adapter it in my own words with references and this work has not been submitted for any other degree or professional qualification.

Noman Hassan

signature:

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Abstract

Radio frequency identification system (R.F.I.D) has been applied in many areas such as metro bus projects and theft detecting. RFID is a tracking system which replacing bar-codes. It is used in theft detection in shopping malls. Bar-code scanner is an old method and much help full. Attendance system in our institution and industries are not much good it's a traditional system to take attendance on paper which is time consuming. I am replacing attendance system with RFID based attendance system in which I used RFID technology. I take passive tags, active tags, ARDUNIO UNO and a LCD. It works on 12 v 125 kHz frequency. It is a simple circuit the different thing is how I programmed ARDUINO UNO according to my work. When passive tag come into range of active tag it send data to passive tag and it read the data and send it to ARDUNIO UNO which decodes data and show data on LCD. This system of attendance over-come the problems associated with traditional system and proxy problems.R.F.I.D technology widely used in daily life applications with-out humans knowing it.R.F.I.D based attendance system is latest technology which saved time of teacher and students it also keep an eye on late entries ,early outs and monthly annually record of attendance.

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CHAPTER 1

Introduction

Radio frequency identification based attendance system is latest attendance system which is used in different institutes. It consists on RFID tags and RFID reader Adriano Uno, LCD, buzzer, buzzer and power supply. The traditional system of taking attendance on paper which may take 10 to 15 minutes this system helps professor to save time. The project run by ARDUNIO code and it get information by student tag and compare it with data base and it put the attendance automatically. RFID is basically wireless technology which used power of radio.