

Guided Project

CSE 331: Microprocessor Interfacing & Embedded System

Fall 2020

Selected Projects for Simulation using Proteus

You, as a group, can pick any of the following projects:-

1. Gas detection and PPM measurement using 8051/PIC microcontroller using MQ Gas sensors
2. Rotary encoder interfacing with 8051/PIC microcontroller
3. Home automation using 8051/PIC microcontroller
4. Heart beat monitoring using 8051/PIC microcontroller
5. Zero crossing detector design using 8051/PIC microcontroller
6. Foot step power generation system using 8051/PIC microcontroller
8. Street light automation using 8051/PIC microcontroller
9. Water level monitoring using 8051/PIC microcontroller
10. Security lock system using 8051/PIC microcontroller
11. Car parking monitoring system using 8051/PIC microcontroller
12. Password based door lock system using 8051/PIC microcontroller
13. Electronic voting machine using 8051/PIC microcontroller

However, you are not allowed to do the following trivial or popular projects for this course:

- Temperature and humidity sensor based system using 8051/PIC microcontroller
- Fire alarm based system using 8051/PIC microcontroller
- Ultrasound based Obstacle sensor system using 8051/PIC microcontroller

Have you any queries, please send me an email at *rishad.arfin@northsouth.edu*