



EEE 302: TERM PROJECT

FIRE FIGHTING SYSTEM OF AN INDUSTRY

Project Aim:

To build a microcontroller-based firefighting system for an industry that will be activated when there will be a siren or fire alarm.

Project Report:

Follow the lab report template for the cover page. Then, go through the following steps:

1. Project Objective
2. Design Procedure
3. Software simulation
4. Hardware Implementation
5. Total Cost
6. Project Outcome: Discussions and Outcomes (What have you learned)
7. Conclusion: Mentioning the social impact of this project.

Rubrics for the assessment of the design and report

Performance Indicators	Outstanding (10)	Good (8-9)	Satisfactory (6-7)	Unsatisfactory (0-5)
Understanding design requirements	Fully understands the purpose and function of the system to be designed, fully aware of the constraints	Reasonably understands the purpose and function of the system to be designed, fully aware of the constraints	Understands to some extent the purpose and function of the system to be designed, fully aware of the constraints	Has a vague or no understanding of the purpose and function of the system to be designed, fully aware of the constraints
Following sound design procedure	Design procedure is very systematic and clear. Design decisions are taken through appropriate analysis and comparison of options	Design procedure is reasonably systematic and clear. Reasonable analysis and comparison of options are done during taking design decisions	The design procedure followed is to some extent systematic and clear. Analysis and comparison of options are done to some extent during taking design decisions	Does not follow any systematic and clear design procedure. Analysis and comparison of options are not done during taking design decisions
Satisfying design requirements	Clearly demonstrates that all design requirements are met	Reasonably demonstrates that all design requirements are met	Demonstrates to some extent that all design requirements are met	Does not demonstrate meeting all design requirements or demonstrate only partially.
Performing economic analysis	Economic analysis is thorough and correct. All cost components are appropriately considered	Economic analysis is reasonable. All cost components are appropriately considered	Performs economic analysis to some extent. Aware of all cost components	Does not perform economic analysis and/or not aware of all major cost components