

FINAL YEAR PROJECT REPORT

Intelligent Conference Room



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Intelligent Conference Room



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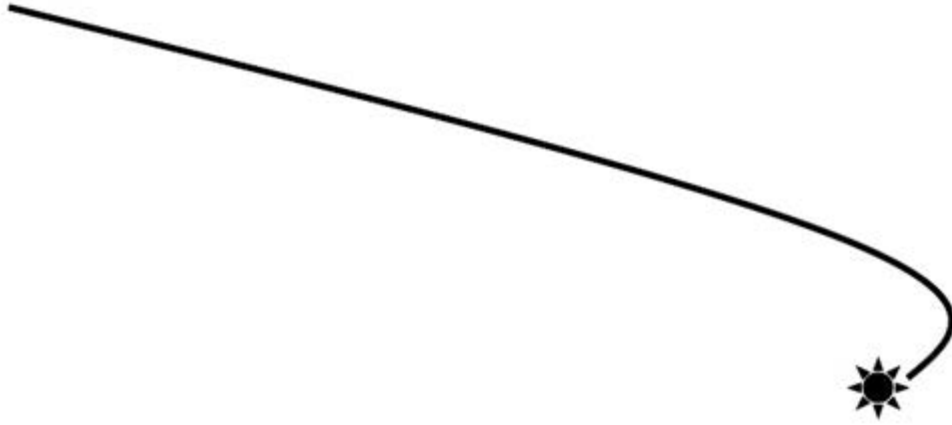
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ABSTRACT

The Project Intelligent Conference Room mainly emphasizes on efficient use of energy resources and wireless communication for PLC by using different automation functions. In this controller based design, different types of sensors are used to make the room automatic and intelligent.

The arrival of a first person is detected at the door of the room and small light is turned on automatically. Individual lights are controlled with respect to persons sitting on their respective chairs. Moreover AC or heater is turned on or off if temperature exceeds or decreases from specific limits. The project also involves a display outside, for continuously updating the number of people present inside the room, to avoid congestion. IR sensors are used for detection of objects to make the project more cost effective.



Dedication



"We dedicate our project efforts to our parents who hold our hands on each occasion of life & support us to complete such projects".

ACKNOWLEDGEMENTS

O Lord! Let not our hearts deviate from the truth after you have guided us and bestowed upon us, mercy from your grace, verily you are the Giver of bounties without measure. Up and above, everything, all gratitude to **ALMIGHTY ALLAH**, the Compassionate and the Merciful, Who enabled us to elucidate a drop from the existing ocean of knowledge! Countless salutation be upon the **HOLY PROPHET MUHAMMAD (SAWW)**, the beacon of knowledge, who has guided his “Ummah” to seek knowledge from cradle to grave.

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Friends are the comrades of the battle, the battle to generate knowledge, sift myths and facts and to remove ambiguity. They co-shared our struggle and our work. We express our appreciative feelings for all our friends for their excellent encouragement. We think they deserve to be saluted.

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List of Abbreviations

ADC	Analog to Digital Converter
Automatic	Voltage Regulation
BOR	Brown-out Reset
CMOS	Complementary Metal-Oxide Semiconductor (transistor type)
DMM	Digital Multimeter
IC	integrated Circuit
IR	Infra Red
IR-RX	Infra Red Receiver
IR-TX	Infra Red Transmitter
LCD	Liquid Crystal Display
LED	Light Emitting Diode
OPAMP	Operational Amplifier
SDA	Serial Data Line
SF	Scale Factor
ST	Schmitt Trigger input
UV	Ultra Violet
VREF	Voltage reference
WDT	Watchdog Timer
RISC	Reduced Instruction Set Computer