FINAL YEAR PROJECT REPORT

“GSM Based Real Time Device Control and Electrical Data Logger”

Submitted by

M Nabeel Asim	101519-003
Abrar Hussain	101519-018
M Naeem Sohail	101519-027
Syed M Fahad Wasti	101519-033

DEPARTMENT OF ELECTRICAL ENGINEERING

SCHOOL OF ENGINEERING

UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

Aug 2014

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GSM Based Real Time Device Control and Electrical Data Logger

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Submitted by

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in partial fulfillment of the requirements for the award of degree of
BACHELOR OF SCIENCE
IN
ELECTRICAL ENGINEERING

APPROVED

Project Advisor_____ Director Projects _____

DEPARTMENT OF ELECTRICAL ENGINEERING
SCHOOL OF ENGINEERING
UNIVERSITY OF MANAGEMENT AND TECHNOLOGY

Aug 2014

University of Management & Technology
School of Engineering
Department of Electrical Engineering

Senior Year Project- I Evaluation

Project ID 24 Date 06-03-2014

Project Title: GPRS Based Data logging & Real time Gsm Based Device Control

Particulars of the Students

Code	ID	Name	Semester in which Registered	Contact Number
A	101519-003	M. Nabeel Asim	Spring 2014	0 333-698 424
B	101519-018	Abrar Hussain	"	
C	101519027	M Naeem Sohail	"	
D	101519-033	Syed Fahad Wasti	"	

S.No	Topic	Max Marks	Obtained Marks
1	Problem Statement	10	
2	Objective/Scope	10	
3	Methodology	10	
4	Scope of the Project/Utilization	10	
5	Literature Review/Data collection	10	
6	Design and Analysis	10	
7	Expected Output/Outcome/Final Deliverable	10	
8	Conclusion and Recommendation	10	
9	FYP-1 Documentation	20	

236/300 x20 = 15.7

Suggested Changes	① will show control of one parameter preferably a 'geyzer'

Name Role: (adviser/member) Signature:_____

GPRS Based Real Time Electrical Data logger with SMS Based Real Time Device Control

Task	Week of																
	1/9	2/9	3/9	4/9	1/10	2/10	3/10	4/10	1/10	2/11	3/11	4/11	1/12	2/12	3/12	4/12	5/12
Decide Topic of Interests																	
Project Selection																	
Feasibility Report																	
Write Synopsis																	
Prepare Presentation																	
Project Architecture																	
Literature Review of GPRS/GSM																	
Literature Review of Microcontrollers																	
Literature Review About Interfacing of Instruments etc.																	
Module Designing																	
Programming of PIC Microcontroller																	
Literature Review of Instrumentation																	
Market study																	
Feasibility Test																	
FP1 Progress Report																	
Prepare Presentation																	

Saleem

Saleem

Saleem

Work Distribution:

Joint Effort

Abrar Hussain 101519-018 – Slanted Lines \\\\\\

Syed Fahad Wasti 101519-033 – Grid Boxes

M Nabeel Asim 101519-003 – Horizontal Lines

M Naeem Sohail 101519-027 – Grey Fill

26/11/13

Project Advisor:
Sir Saleem Atta

Project Planner

24

4

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Thesis Similarity Report

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ACKNOWLEDGEMENT

All praise and thanks is to Allah, the Lord of mankind and all that exists, for His blessings, benevolence, and guidance at every stage of our life and in our final year project. We are indebted to our project advisor **Mr. Saleem Ata**, whose consistent support and guidance encouraged and enabled us to complete our project.

Also, we are thankful to **Mr. Salman Khalid** for their consistent technical support and valuable suggestions and information that proved vital in the completion of our project.

Last, but not the least, we would extend our heartfelt thanks to our family, and particularly our Parents, for their continuing support, especially during our university years.

Abstract

The motivation for doing this project comes from the fact that the private sector have been selling very costly protection systems to the government sector. For the sake of solution, we have designed protection module, ensuring complete security and cost effectiveness. This module monitors the voltage, current and temperature and trips the circuit under any abnormal condition.

The input to this module has been taken through the CT and PT in the form of reduced replica. LM-35is the temperature sensor which will provide the value of temperature. These analogue values are scaled through RC circuit and fed to the PIC (**18** F452) microcontroller where the inbuilt ADC convert them into digital form. These values are then compared with the specified values and the signal is generated accordingly. The values are displayed on the LCD**.** The key feature of this module is the two way communication with the remote responsible personal through GSM. When the fault occurs, the fault information will be immediately sent to the remote personal. If he wants to restore the system he can send the restoring command via SMS and the system will be restored. This module also sends the information on website after specific period continuously. So, we can access the system record from anywhere through internet.

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