

Microcontroller Based Substation Monitoring and Control System with Gsm Modem

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Abstract : *The purpose of this project is to acquire the remote electrical parameters like Voltage, Current and Frequency and send these real time values over GSM network using GSM Modem/phone along with temperature at power station. This project is also designed to protect the electrical circuitry by operating an Electromagnetic Relay. This Relay gets activated whenever the electrical parameters exceed the predefined values. The Relay can be used to operate a Circuit Breaker to switch off the main electrical supply.*

User can send commands in the form of SMS messages to read the remote electrical parameters. This system also can automatically send the real time electrical parameters periodically (based on time settings) in the form of SMS. This system can be designed to send SMS alerts whenever the Circuit Breaker trips or whenever the Voltage or Current exceeds the predefined limits.

This project makes use of an onboard computer which is commonly termed as microcontroller. This onboard computer can efficiently communicate with the different sensors being used. The controller is provided with some internal memory to hold the code. This memory is used to dump some set of assembly instructions into the controller. And the functioning of the controller is dependent on these assembly instructions. The controller is programmed using Embedded C language.

Keyword: *GSM Modem, Initialization of ADC module of microcontroller, PIC-C compiler for Embedded C programming, PIC kit 2 programmer for dumping code into Micro controller, Express SCH for Circuit design, Proteus for hardware simulation.*

I. Introduction

Electricity is an extremely handy and useful form of energy. It plays an ever growing role in our modern industrialized society. The electrical power systems are highly non-linear, extremely huge and complex networks [1]. Such electric power systems are unified for economical benefits, increased reliability and operational advantages. They are one of the most significant elements of both national and global infrastructure, and when these systems collapse it leads to major direct and indirect impacts on the economy and national security [2]. A power system consists of components such as generators, lines, transformers, loads, switches and compensators. However, a widely dispersed power sources and loads are the general configuration of modern power systems [3]. Electric power systems can be divided into two sub-systems, namely, transmission systems and distribution systems. The main process of a transmission system is to transfer electric power from electric generators to customer area, whereas a distribution system provides an ultimate link between high voltage transmission systems and consumer services. In other words, the power is distributed to different customers from the distribution system through feeders, distributors and service mains. Supplying electricity to consumers necessitates power generation, transmission, and distribution [4]. Initially electric power is generated by using electric generators such as: nuclear power generators, thermal power generators and hydraulic power generators and then transmitted through transmission systems using high voltage. Power departs from the generator and enters into a transmission substation, where huge transformers convert the generator's voltage to extremely high voltages (155kV to 765 kV) for long-distance (up to about 300 miles) transmission [4]. Then, the voltage level is reduced using transformers and power is transferred to customers through electric power distribution systems. Power starts from the transmission grid at distribution substations where the voltage is stepped-down (typically to less than 10kV) and carried by smaller distribution lines to supply commercial, residential, and industrial users [4]. Novel electric power systems encompassing of power transmission and distribution grids consist of copious number of distributed, autonomously managed, capital-intensive assets. Such assets comprise: 1.) power plants, 2.) transmission lines, 3.) transformers, and 4.) protection equipment [1].

Electric utility substations are used in both the transmission and distribution system and operate independently to generate the electricity. A typical substation facility consists of a small building with a fenced-in yard that contains transformers, switches, voltage regulators, and metering equipment that are used to adjust voltages and monitor circuits [4]. A reliable and efficient process of these networks alone is not very significant when these electricity systems are pressed to their parameters of its performance, but also under regular operating conditions. Generators and loads are some components that coerce the continuous dynamic behavior [5].

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Communication conference will be as successful and stimulating as indicated by the contributions presented in this volume
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smart transportation smart home smart agriculture smart manufacturing smart grid smart education smart government
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Challenges and future research directions of smart city applications **ICAE 2022** Prasaja Wikanta,Alena

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November 1997 ,1997 **Applied Science & Technology Index** ,1995 **Microcomputers** Engineering Information,
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fun and interesting facts about turtles animalwised - Oct 30 2021

web jan 31 2022 turtles are found on most continents islands and most of the world s oceans many turtle species are under threat of extinction due to the destruction of turtle habitats around the world in this animalwised article we will explain some interesting facts about turtles one of the oldest and most fascinating animals on earth

sea turtles facts and information seaworld parks - Feb 14 2023

web fast facts description sea turtles are characterized by a long streamlined shell depending on the species sea turtles color range can be olive green yellow greenish brown reddish brown or black limbs and flippers are adapted for swimming adult male and female sea turtles are equal in size

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web reference sea turtles 3 29 sea turtles 101 find out about sea turtles oldest known ancestor how certain adaptations may have helped the reptiles survive and the conservation efforts

30 fun facts about sea turtles the homeschool scientist - Sep 09 2022

web sharing is caring sea turtles are wondrous creatures as you ll learn as you read the 30 fun facts about sea turtles listed below sea turtles fight many odds and it is estimated that only 1 in 1 000 sea turtle hatchlings survive to adulthood which

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web may 18 2023 they ve been around for a long time sea turtles are among the oldest organisms in the world with the oldest known fossil dating back at least 120 million years that indicates they lived on the same planet as dinosaurs which died out 65 million years ago these water reptiles are not aggressive but if they feel threatened they may bite

11 amazing facts about sea turtles oceanic society - Sep 21 2023

web jul 24 2023 1 sea turtles outlived the dinosaurs a leatherback turtle returns to sea after nesting ben j hicks sea turtles are often compared to dinosaurs due to their scaly reptilian appearance in fact sea turtles were around at the same time as dinosaurs

sea turtles fascinating facts noaa s national ocean service - Jan 13 2023

web sea turtle salute the following is a compilation of fascinating facts to test your sea turtle knowledge shown here loggerhead turtle hatchlings make their way to the sea in juno beach florida image courtesy of veronica runge sea turtles are ancient species having been around since the time of the dinosaurs about 110 million years

10 totally awesome facts about turtles national geographic kids - Aug 20 2023

web turtle facts 1 turtles belong to one of the oldest reptile groups in the world beating snakes crocodiles and alligators 2 these creatures date back to the time of the dinosaurs over 200 million years ago woah 3 turtles are easily recognised by their bony cartilaginous shell

world sea turtle day 2023 8 interesting sea turtles facts for kids - Jul 07 2022

web jun 16 2023 8 interesting sea turtles facts for kids 1 sea turtles can live up to 50 years sea turtles have similar life spans to humans while they typically live for about 30 years some of these creatures live up to 70 or even 80 years 2 sand temperature determines the sex of sea turtles the eggs of marine turtles cannot survive underwater

100 surprising sea turtle facts for kids 2023 - Apr 04 2022

web jun 16 2022 1 sea turtles have been around for more than 100 million years source noaa fisheries 2 sea turtles lived during the time of the dinosaurs and survived when the dinosaurs went extinct source noaa fisheries 3

sea turtle species wwf world wildlife fund - Nov 11 2022

web sea turtles are the live representatives of a group of reptiles that have existed on earth and traveled our seas for the last 100 million years turtles have major cultural significance and tourism value five of the seven species are found around the world mainly in tropical and subtropical waters

11 sensational facts about sea turtles fact city - Feb 02 2022

web aug 3 2023 1 sea turtles are the caretakers of the deep sea turtles generally spend their time hoovering up the seabed at least they do to the extent that they eat the plants and seagrass that can often overgrow in fact without sea turtles helping to keep things short seagrass may otherwise harm smaller marine life 2

7 sea turtle facts for the ocean lover noaa fisheries - May 17 2023

web jun 13 2022 news 7 sea turtle facts for the ocean lover june 13 2022 sea turtles are fascinating creatures learn some facts about these much loved marine reptiles feature story national hawaiian green sea turtle credit istock watch this short video to learn about sea turtles and dive into more details below

21 interesting and fun turtle facts for learning more about turtles - Nov 30 2021

web 1 there are over 350 species of turtles there are about 356 species of turtles in the world 4 there are so many different types of turtles popular species include hawksbill turtles leatherback turtles flatback turtles loggerheads red eared sliders western painted turtles and african side necked turtles amongst others

9 satisfying facts about the sea turtle the fact site - May 05 2022

web sep 28 2023 sea turtles are amongst some of the world s oldest reptiles that are still alive today sadly they are becoming an endangered species due to climate change pollution and poaching but many conservation projects are being set up globally to help these beautiful creatures of the sea survive

19 facts about sea turtles facts net - Mar 03 2022

web sep 8 2023 home nature animals 19 facts about sea turtles lucky contreras modified updated 08 sep 2023 conservation status facts endangered species facts habitat and distribution facts source brightly eco sea turtles are fascinating creatures that have captured the imagination of people across the world

10 fascinating facts about sea turtles great barrier reef - Jul 19 2023

web jun 16 2020 1 they re really ancient the oldest known sea turtle fossil is at least 120 million years old making sea turtles some of the oldest creatures on the planet that means they shared the planet with dinosaurs which became extinct around 65 million years ago 2 have shell will travel

fun sea turtle facts for kids kidadl - Jun 06 2022

web aug 6 2021 there are seven species of sea turtles present all over the world the largest sea turtle is the leatherback sea turtle at about 70 86 in 180 220 m in length whereas kemp s ridley is recorded as the smallest sea turtle species and is around 23 28 in 58 70 cm in length the average length of sea turtles is 24 28 in 62 70 cm

10 fun facts about sea turtles discover the palm beaches - Jan 01 2022

web 1 there are only 7 species of sea turtles seven species of sea turtles can be found in every ocean around the world the flatback the olive ridley the loggerhead the green turtle the leatherback the kemp s ridley and the hawksbill five species can be found in florida and three species come to palm beach county to nest

7 interesting facts about sea turtles earth org - Oct 10 2022

web may 23 2023 7 interesting facts about sea turtles 1 sea turtles can live up to 50 years while it is difficult to document the exact age of any species of sea turtles scientists found that these creatures have similar life spans to humans marine species sometimes take two to three decades to mature and remain actively reproductive for another 10

15 fabulous facts about sea turtles australian geographic - Mar 15 2023

web apr 10 2023 australians love sea turtles whether it s swimming alongside them on coral reefs spotting one coming

ashore or watching hatchlings erupt from the sand these reptiles are firm favourites while our encounters are mostly close to land the world s seven different species of sea turtle actually live the majority of their lives out at sea

fun facts about terrific sea turtles noaa fisheries - Dec 12 2022

web outreach and education fun facts about terrific sea turtles all six species of turtles in u s waters are protected under the endangered species act here you can find out more about them and why their numbers have been declining national what is *the citizen* - Sep 28 2021

web may 23 2023 the citizen