

SINGLE PHASE MICROCONTROLLER-BASED AUTOMATIC CHANGE OVER SWITCH

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ABSTRACT

Power failure or outage in a country, state or city is highly detrimental to development in public and private industries. The insecurity associated with constant or frequent power failure or outage brings about limitation to power consistent investments, thus hampering the development of industries and multinational ventures. Processes like carrying out surgical operations in hospitals, laboratories which require constant power supply for research, money transactions between banks and more require constant use of uninterrupted power. This research covers the design and construction of a single phase microcontroller-based automatic power changeover. It has the capacity to automatically switch power from national grid to generator and vice versa, once there is power failure in any of the two power supplies. This was achieved by the use of electrical components such as resistors, capacitors, diodes, transistors, opto-isolators etc., integrated circuits that have timing abilities and relays for switching effect. Due to the looping of the pole of the contactor to give 50A current each for PHCN and generator, the maximum power the circuit can withstand on an a.c voltage of 240V is 12KVA. This means the circuit can carry a large amount of power in homes and offices.

KEYWORDS: *Changeover Switch, Microcontroller, Contactor, Power Supply, Opto-Isolator*

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1.0. INTRODUCTION

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The need for constant and stable power supply in a country, state or city cannot be overemphasized. In most developing nations, industries, firms and organizations contest for power supply that is unreliable and insecure, thus marring the effect of productivity and development. In these nations, the quest for secure and reliable power supply remains a dream yet to be achieved. This is as a result of increase in population, industrialization, urbanization (Aguinaga, 2008; Fuller, 2007; Kolo, 2007) and lack of proper planning by the government and utility providers. Most manufacturing industries, firms and institutions such as hospitals and healthcare facilities, financial institutions, data centers and airports to mention, but a few require constant power supply throughout the year. Volatility in power generally delays development in public and private section of any economy (Kolo, 2007; Anon, 2010; Chukwubaike, 2012). For instance, power failure could lead to prohibitive consequences ranging from loss of huge amounts of money to life casualties (Aguinaga, 2008).

This instability in power supply has led to the development of switching systems between national grid power system and standby generators used as backup. In the past decade, various equipment and configurations have been put in place in order to manage this problem (Aguinaga, 2008). An automatic changeover switching system makes use of contactors, active and passive components and transducers to realize changeover in a shorter

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Business Sustainability with Artificial Intelligence (AI): Challenges and Opportunities Esra AlDhaen, Ashley Braganza, Allam Hamdan, Weifeng Chen, 2024-10-22 This book covers different technological and business related issues including ethical use and cultural sensitivity of data used in businesses managing data privacy and protection governance standards for digital transformation executive leadership strategic decisions and business innovation and sustainability With the recent development of artificial intelligence AI businesses are urged to consider innovation while applying digital transformation Depending on the nature of the businesses it is found that innovative digital transformation is required with the use of artificial intelligence However the future of AI in businesses is yet unclear the question is it true that without digital transformation businesses are no longer sustainable Researchers argue that digital transformation could be an opportunity for business to create a global brand however several implications and challenges should be considered including governance and responsible digital management This book explores how businesses could benefit from AI and leverage technologies to sustain businesses The book is authored by leading experts in the field of AI digitalization and business innovation and sustainability the author s diversity reflects quality of research with high level of impact in the research topic It is written in accessible language that makes it easy for business leaders researchers policymakers and anyone interested in the future of business development to understand the complex concepts and ideas presented in the book This book provides insight for executive leaders in setting new innovative strategies toward leveraging AI in business at different levels of operations to support business sustainability The book provides different theoretical and practical practices and case studies that could be used as a guideline for policy making and devising innovative directions

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smart information communication bio monitoring smart cities food quality assessment waste management environmental aspects alternative energies sustainable infrastructure development etc In short it offers valuable information and insights for budding engineers researchers upcoming young minds and industry professionals promoting awareness for recent advances in the various fields mentioned above Documentation Abstracts ,1998 IoT Based Smart Applications Nidhi Sindhwani,Rohit Anand,M Niranjnamurthy,Dinesh Chander Verma,Emilia Balas Valentina,2022-09-30 This book provides insights into IoT its applications and various implementation techniques The authors first discuss the IoT design methodology to define the domain model They then cover various connection methodologies used in IoT such as Ethernet Wi Fi low powered wide area network LPWAN Bluetooth RFID cellular and satellite and more along with their challenges An example is made on the designing process using Arduino which offers smart connected and secure elements they also illustrate the integration of IoT with Blockchain cloud machine learning big data embedded software sensors etc The book going on to cover the future of IoT in various sectors and how IoT will continue to be game changing technology **How to Design, Build and Operate a GPS-Guided Autopilot System for RC Aircraft** Don Cornwell,Nicholas Chaplin,Jeremiah Jones,2015-05-12 Project Report from the year 2012 in the subject Engineering Mechanical Engineering grade A DeVry University course ECET 494 language English abstract The objective of this project is to design build and operate a GPS Guided Autopilot system for Radio Controlled Aircraft This product will have to be small lightweight aerodynamic and modular It will only have to rely on 1 channel input from the aircraft receiver for the RC Autopilot switching function It will have to be able to fly a predetermined route while having the ability for the consumer to override the autopilot feature if desired by using their remote control Our RC aircraft autopilot system will be interfaced with a computer in order to program the way points that will make up the flight plan All of these objectives are critical in order to have a functional RC aircraft autopilot system Our time frame for completion of this project is 32 weeks and our target for total cost for the build is 500 The product that we are proposing is a GPS Guided Autopilot System designed for radio controlled aircraft This project is a modular RC Autopilot Aircraft System that will be designed for small inexpensive and basic radio controlled unmanned aerial vehicles Although our target market will be RC hobbyists that are interested in flying their airplanes autonomously our system will also have the potential to expand to larger markets such as hobbyists flying helicopters as well as Unmanned Aerial Vehicles used in the military There will be three phases to this project Phase 1 is our goal and is dedicated as the Autopilot function once the aircraft has reached altitude Phase 2 is the addition of Autopilot landing and Phase 3 is the addition of Autopilot takeoff Phases 2 and 3 are left as optional and will be completed if and only if the team has enough time before the end of the series of Senior Project courses The project can be broken down into three basic modules to perform these tasks These modules are the Sensing module the Receiver Processor module and a flight Control module The combination of these three modules will be assembled to form the autopilot function The Sensing module will consist of a

GPS antenna and a signal processor along with a 2 axis gyroscope and a 3 axis accelerometer The GPS signal from satellites will be processed into information that will be used by the receiver processor module to send flight path corrections to the flight control module to keep the aircraft on the programmed path The flight controls affected by the GPS signals will be the engine speed and the rudder

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