

2015). Rapid wear and tear of the mechanical parts also occurs due to continuous up and down movement which will lead to increased frequent maintenance.

## 2. BLOCK DIAGRAM

The power supply unit consists of step-down transformer, rectifier (full wave bridge) filter capacitor and voltage regulator. It converts high ac input to a ripple free regulated d.c. power which powers the relay, logic gate and alarm units, in carrying out their various functions. In the design, we are converting 220V (a. c.) at 50Hz to 12V d.c. regulated power.

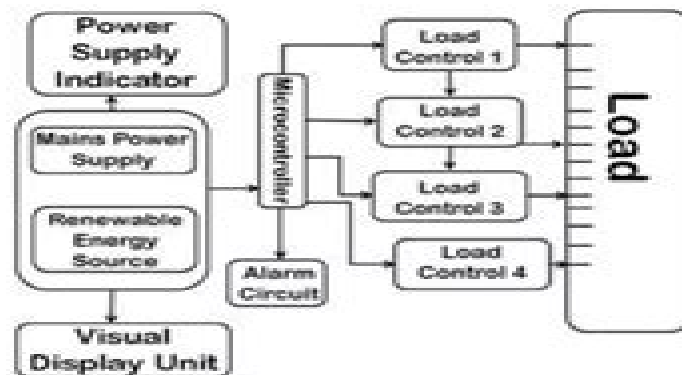


Fig. 2.1: Block Diagram of Proposed System

After careful calculation and selection of components, the circuit diagram was drawn in Proteus. It was then assembled and implemented block-by-block on a breadboard, tested and found to perform satisfactorily. Before transferring the separate blocks/units to a Vero board for careful soldering and testing microcontroller unit circuit is the heart universal programmer, respectively. This is where the program for circuit diagram is as shown in Fig. 2.1 the control part of the paper is written and burned using assembly language and a The 8052 microcontroller hardware circuit is usually a very flexible one and all the surrounding components are given a recommended range of values, by the datasheet but the actual values can be chosen by the programmer.

## 3. METHODOLOGY

In this paper is aimed at designing and constructing an automatic change over with step loader. Under normal operation, the circuit is programmed to change over power supply from the generator to the mains supply and back to the generator (the generator is sequentially loaded) when

there is no supply from the mains. Series of programs were written in assembly language and were embedded into the microcontroller. As regards the power supply unit, transformer TR1 steps down the voltage to 12V, then bridge rectifier BR1 rectifies it to pulsating dc, and then capacitor C1 does the filtering and inputs it to the voltage regulator LM 7805 to give a fixed output of purer dc power which power the microcontroller U3 and display unit at 5V; or LM7812 to power the relays at 12V.

There are two alarms, one sounds when there is utility power restoration (in the beginning of the circuit when you turn it ON, when power goes out and when power comes back) and the other alarm is called an error alarm sounds when the system deviates from its usual or defined pattern e.g. when the generator refuses to start or stop. The alarm circuit comprises audio (buzzer) BUZ1 and visual (LED) D3 indicators driven by a 555 timer U6 connected in astable mode. In this mode it has no stable state. The 555 timer produces a square wave (pulsating or intermittent signal) and its output continually switches state between high and low without any intervention from the user. As stated already, when there is the presence of power from the mains supply, the NOT gate D5A sends a low signal to the microcontroller U3 which will in turn send a low signal to the 555 timer (U6) connected in an astable mode, which produces a signal of alternating pulses with a 50% duty cycle, which triggers the buzzer to output a constant pulsating alarm and flashes the LED D3 on and off.

The input voltage from the backup battery gives us a maximum of 8V and the capacitor could make the voltage going into the regulator to get up to 15V. This value is typical for the 7805 regulator, as the maximum required voltage input is about 25V. The 7805 voltage regulator is a three terminal IC used for voltage regulation. It is factory trimmed to provide a fixed output of 5 volts at 1A load current and has an on chip circuitry to prevent damage in the event of over heat or excessive load current. The chip simply shuts down, rather than burning out.

The Power supply unit is responsible for supplying the system's power requirements. It makes power available to the other units of the hardware system. The Power supply unit delivers 5V dc regulated supply at 1A each.

The paper basically supplies continuous power to a load in automated mode through one of the four sources of supply that are: solar, mains, thermal, and wind when any one of them is unavailable. Four switches are used for four respective sources. These are connected to a microcontroller of 8051 families that provides input signals to it. Whenever a switch is pressed, it shows the absence of that particular source. A relay driver receives microcontroller generated an output signal and switches that particular relay to provide continuous power supply. A lamp was used as a load for demonstration purpose which draws power from main. When mains fails to supply power, automatically next available source is used say thermal. If thermal fails then the

# Microcontroller Based Automatic Change Over Project Report

**Ying Liu**



## **Microcontroller Based Automatic Change Over Project Report:**

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

*Scientific and Technical Aerospace Reports* ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

*INIS Atomindex* ,1984

Intelligent Techniques and Applications in Science and Technology Subhojit Dawn,Valentina Emilia Balas,Anna Esposito,Sadhan Gope,2020-03-02 This book provides innovative ideas on achieving sustainable development and using green technologies to conserve our ecosystem Innovation is the successful exploitation of a new idea Through innovation we can achieve MORE while using LESS Innovations in science technology will not only help mankind as a whole but also contribute to the economic growth of individual countries It is essential that the global problem of environmental degradation be addressed immediately and thus we need to rethink the concept of sustainable development Indeed new environmentally friendly technologies are fundamental to attaining sustainable development The book shares a wealth of innovative green technological ideas on how to preserve and improve the quality of the environment and how to establish a more resource efficient and sustainable society The book provides an interdisciplinary approach to addressing various technical issues and capitalizing on advances in computing optimization for scientific technological development

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

**Monthly Catalog of United States Government Publications** United States. Superintendent of Documents,1980 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index

*IoT Based Smart Applications* Nidhi Sindhwani,Rohit Anand,M Niranjanamurthy,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

**Documentation Abstracts** ,1998

**Monthly Catalogue, United States Public Documents** ,1980

Me, Him and Layla Omar K Pasha,2024-12-23 Series Layla s Echoes Book 1

Description Me Him and Layla the first installment of the Layla s Echoes series blends romance ambition and a touch of fantasy into a captivating tale of love and self discovery Set against the vibrant backdrop of Baghdad the story follows Omar a dedicated engineer yearning for a greater purpose and Layla a determined advocate fighting to carve her own path in a world of societal expectations Their connection sparks during a prestigious computer course growing deeper as they navigate personal and shared struggles But their journey takes an extraordinary turn when Omar begins to experience dreamlike visions and encounters with mysterious figures who reveal that his destiny is far greater than he ever imagined Guided by cryptic warnings and newfound powers Omar must grapple with forces beyond the ordinary while balancing the challenges of his everyday life and his deepening bond with Layla As romance and reality collide with elements of the supernatural Me Him and Layla explores the transformative power of love the courage to embrace destiny and the trials that test both heart and soul Perfect for readers who enjoy emotional dramas a rich cultural setting and a sprinkle of fantastical intrigue this novel sets the stage for a series that will linger in your thoughts long after the final page

**Smart Cities—Opportunities and Challenges** Sirajuddin Ahmed,S. M. Abbas,Hina Zia,2020-04-20 This book comprises select proceedings of the International Conference on Smart Cities Opportunities and Challenges ICSC 2019 The book contains chapters based on urban planning and design policies and financial management environment energy transportation smart materials sustainable development information technologies data management and urban sociology reflecting the major

themes of the conference The contents focus on current research towards improved governance and efficient management of infrastructure such as water energy transportation and housing for sustainable development economic growth and improved quality of life especially for developing nations This book will be useful for academicians researchers and policy makers interested in designing developing planning managing and maintaining smart cities Expert Systems Applications in

Advanced Control ,1991 **Video Vehicle Detector Verification System (V2DVS) Operators Manual and Project**

**Final Report** Art MacCarley,2012 Applied Informatics for Industry 4.0 Nazmul Siddique,Mohammad Shamsul

Arefin,Julie Wall,M Shamim Kaiser,2023-02-17 Applied Informatics for Industry 4 0 combines the technologies of computer science and information science to assist in the management and processing of data to provide different types of services Due to the adaptation of 4 0 IR related technologies applied informatics is playing a vital role in different sectors such as healthcare complex system design and privacy related issues This book focuses on cutting edge research from the fields of informatics and complex industrial systems and will cover topics including health informatics bioinformatics brain informatics genomics and proteomics data and network security and more The text will appeal to beginners and advanced researchers in the fields of computer science information sciences electrical and electronic engineering and robotics

**Intelligent Computing on IoT 2.0, Big Data Analytics, and Block Chain Technology** Mohammad S.

Obaidat,Padmalaya Nayak,Niranjan K. Ray,2024-05-23 The book is designed as a reference text and explores the concepts and techniques of IoT artificial intelligence AI and blockchain It also discusses the possibility of applying blockchain for providing security in various domains The specific highlight of this book is focused on the application of integrated technologies in enhancing data models better insights and discovery intelligent predictions smarter finance smart retail global verification transparent governance and innovative audit systems The book discusses the potential of blockchain to significantly increase data while boosting accuracy and integrity in IoT generated data and AI processed information It elucidates definitions concepts theories and assumptions involved in smart contracts and distributed ledgers related to IoT systems and AI approaches The book offers real world uses of blockchain technologies in different IoT systems and further studies its influence in supply chains and logistics the automotive industry smart homes the pharmaceutical industry agriculture and other areas It also presents readers with ways of employing blockchain in IoT and AI helping them to understand what they can and cannot do with blockchain The book is aimed primarily at advanced undergraduates and graduates studying computer science computer engineering electrical engineering information systems computational sciences artificial intelligence and information technology Researchers and professionals will also find this book very useful

Government Reports Announcements & Index ,1994-02 **Intelligent Systems Report** ,1997 Jane's World

Railways ,2001 **Use of Services for Family Planning and Infertility, United States, 1982** Gerry E.

Hendershot,Marjorie C. Horn,William D. Mosher,1988 The 1982 statistics on the use of family planning and infertility

services presented in this report are preliminary results from Cycle III of the National Survey of Family Growth NSFG conducted by the National Center for Health Statistics Data were collected through personal interviews with a multistage area probability sample of 7969 women aged 15-44. A detailed series of questions was asked to obtain relatively complete estimates of the extent and type of family planning services received. Statistics on family planning services are limited to women who were able to conceive 3 years before the interview date. Overall, 79% of currently married nonsterile women reported using some type of family planning service during the previous 3 years. There were no statistically significant differences between white (79%), black (75%), or Hispanic (77%) wives or between the 2 income groups. The 1982 survey questions were more comprehensive than those of earlier cycles of the survey. The annual rate of visits for family planning services in 1982 was 1077 visits/1000 women. Teenagers had the highest annual visit rate (1581/1000) of any age group for all sources of family planning services combined. Visit rates declined sharply with age from 1447 at ages 15-24 to 479 at ages 35-44. Similar declines with age also were found in the visit rates for white and black women separately. Nevertheless, the annual visit rate for black women (1334/1000) was significantly higher than that for white women (1033). The highest overall visit rate was for black women 15-19 years of age (1867/1000). Nearly 2/3 of all family planning visits were to private medical sources. Teenagers of all races had higher family planning service visit rates to clinics than to private medical sources, as did black women age 15-24. White women age 20 and older had higher visit rates to private medical services than to clinics. Never married women had higher visit rates to clinics than currently or formerly married women. Data were also collected in 1982 on use of medical services for infertility by women who had difficulty in conceiving or carrying a pregnancy to term. About 1 million ever married women had 1 or more infertility visits in the 12 months before the interview. During the 3 years before interview, about 1.9 million women had infertility visits. For all ever married women as well as for white and black women separately, infertility services were more likely to be secured from private medical sources than from clinics. The survey design, reliability of the estimates, and the terms used are explained in the technical notes.

**Linux Journal** ,2004-07      **International Aerospace Abstracts** ,1998

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