



PARK COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Accredited by National Board of Accreditation and NAAC, Affiliated to Anna University)

NH 544, Avinashi Road, Kaniyur, Coimbatore – 641 659. Ph: 0421 2911200, 2910100

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List of students under taking Project work /Field trip/ Internship

Academic year 2021-2022

B.E-Electronics and Communication Engineering

S.No	Register Number	Name of the student	Year (I/II/III/IV)	Project work	Mini Project	Field Trip	Internship
1.	712218106001	ABINANDH MJ	IV	√	-	-	-
2.	712218106002	ABINAYA V	IV	√	-	-	-
3.	712218106003	AKIL P	IV	√	-	-	-
4.	712218106004	AKILEANDRAN R	IV	√	-	-	-
5.	712218106005	ANJANA A	IV	√	-	-	-
6.	712218106006	BANUMATHI K	IV	√	-	-	-
7.	712218106008	CHANDRU P	IV	√	-	-	-
8.	712218106009	DIVYA M	IV	√	-	-	-
9.	712218106010	DIVYA V	IV	√	-	-	-
10.	712218106011	GOKUL PRASATH A	IV	√	-	-	-
11.	712218106012	GOWRI SHANKAR S	IV	√	-	-	-
12.	712218106014	IYANGANNU S	IV	√	-	-	-
13.	712218106015	JEEVA G	IV	√	-	-	-
14.	712218106016	JEEVA S	IV	√	-	-	-
15.	712218106017	JOTHI VIGNESHWARI R	IV	√	-	-	-
16.	712218106018	KALAIVANI P	IV	√	-	-	-
17.	712218106020	KANNAN T	IV	√	-	-	-
18.	712218106021	KEERTHI RAJ M	IV	√	-	-	-
19.	712218106022	LOKESH R	IV	√	-	-	-
20.	712218106025	MANOJ KUMAR A	IV	√	-	-	-
21.	712218106026	NAVEEN A	IV	√	-	-	-
22.	712218106028	NAVEENKUMAR M	IV	√	-	-	-
23.	712218106030	NITHYA SRI C	IV	√	-	-	-
24.	712218106031	PARAMESHWARAN P	IV	√	-	-	-
25.	712218106032	POOJA V SHARMILI	IV	√	-	-	-
26.	712218106033	POONTAMIZHAN K	IV	√	-	-	-
27.	712218106034	PRABHAKARAN N	IV	√	-	-	-
28.	712218106035	RAMANAN T	IV	√	-	-	-
29.	712218106036	RAMYA DEVI M	IV	√	-	-	-
30.	712218106037	RESHMA AKTARI S	IV	√	-	-	-
31.	712218106038	SANTHOSH P	IV	√	-	-	-
32.	712218106039	SARANYA N	IV	√	-	-	-
33.	712218106040	SARAVANA KUMAR N	IV	√	-	-	-
34.	712218106041	SASMITHA K	IV	√	-	-	-
35.	712218106042	SELVAKUMAR J	IV	√	-	-	-
36.	712218106043	SHOBANA C	IV	√	-	-	-
37.	712218106044	SIVAPRASATHINI R	IV	√	-	-	-
38.	712218106045	SRIDHAR K	IV	√	-	-	-
39.	712218106046	SRIDHARAN R	IV	√	-	-	-
40.	712218106047	SRI DHARMA SASTHA V	IV	√	-	-	-
41.	712218106048	SUDHAKAR K	IV	√	-	-	-
42.	712218106049	SURYA C	IV	√	-	-	-
43.	712218106050	SURYA G	IV	√	-	-	-
44.	712218106051	THARANI M	IV	√	-	-	-
45.	712218106052	VEDHAVARSHINI A	IV	√	-	-	-
46.	712218106053	VINOTH KANNAN S V	IV	√	-	-	-
47.	712218106055	YOGA PRINCE A	IV	√	-	-	-
48.	712218106056	YUVASHRI M	IV	√	-	-	-



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Department of Electronics and Communication Engineering

Academic year 2021-2022 (Even Semester)

PROJECT WORK BATCH LIST(2021-2022)

S.NO	REGISTER NUMBER	STUDENT NAME	PROJECT TITLE	SUPERVISOR
1	712218106012 712218106028 712218106030 712218106032	GOWRI SHANKAR S NAVEEN KUMMAR M NITHYA SRI C POOJA V SHARMILI	WOMEN SAFETY AND ALERT SYSTEM USING GSM MODULE AND IOT	Mr.VENKATESIWARAN
2	712218106002 712218106008 712218106044 712218106047	ABINAYA V CHANDRU P SIVAPRASANTHINI R SRI DHARMA SASTHA V	BOREWELL CHILD RESCUE SYSTEM USING IOT	Dr.M.RAJARAM
3	712218106001 712218106006 712218106046 712218106051	ABINANDH M J BANUMATHI K SRIDHARAN R THARANI M	LIBRARY MANAGEMENT SYSTEM	Dr.V.SHANTHI
4	712218106033 712218106036 712218106042 712218106043	POONTAMIZHAN K RAMYA DEVI M SELVAKUMAR J SHOBANA C	SMART WATCH WITH IOT, VOICE MODULE AND SECURITY SYSTEM	Mrs.C.PREETHIBHA
5	712218106009 712218106011 712218106039 712218106041	DIVYA M GOKUL PRASATH A SARANYA N SASMITHA K	IOT BASED NEARABLE SMART SHEO FOR VISUALLY CHALLENGED PESSON	Dr.V.SHANTHI
6	712218106021 712218106034 712218106040 712218106052	KEERTHIRAJ M PRABHAKARAN N SARAVANKUMAR N VEDHAVARSHINI A	SMART 2FV-3 FACTOR PRODUCTION VALUT SECURITY SYSTEM	MR.VENKATESIWARAN
7	712218106010 712218106018 712218106031 712218106045	DIVYA V KALAIVANI P PARAMESHWARAN P SRIDHAR K	RILWAY TRACK MONITORING AND ACCIDENT AVIDING SECURITY SYSTEM	Dr.M.RAJARAM
8	712218106003 712218106017 712218106026 712218106048	AKIL P JEEVA G NAVEEN A SUDHAKAR K	FACE BIOMETRIC AUTHENTICATION SYSTEM FOR ATM USING DEEP LEARNIG	Mrs.A.VIDHYA
9	712218106014 712218106017 712218106025 712218106050	IYANGANNU S JOTHI VIGNESHWARI R MANOJ KUMAR A SURYA G	SATCHAIN:GEO NETWORK SECURITY MECHANISM BASED ON BLOCKCHAIN,QKD PROTOCOL USING IOT	Mr.C.PRABHU
10	712218106037 712218106005 712218106038 712218106035	RESHMA AKTARI S ANJANA A SANTHOSH RAMANAN T	IOT BASEDCOAL MINE SAFETY MONITORING AND ALERTING SYSTEM	Mr.C.PRABHU



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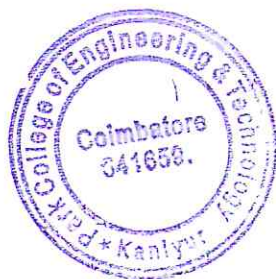
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11	712218106016 712218106053 712218106055 712218106056	JEEVA S VINOTH KUMAR SV YOGA PRINCE A YUVASHRI M	MEMABOT FUTURE SMART WBANS FOR HUMAN MEMORY DATA UPLOADING AND DISTRIBUTION	Dr.M.RAJARAM
12	712218106004 712218106020 712218106022 712218106049	AKILEANDRAN R KANNAN T LOKESH R SURYA C	FIRE ALERT MONITIRING SYSTEM FOR CAR PARKING	Dr.M.RAJARAM



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WOMEN SAFETY AND ALERT SYSTEM USING GSM MODULE AND IOT



A PROJECT REPORT

Submitted by

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POOJA . V. SHARMILI

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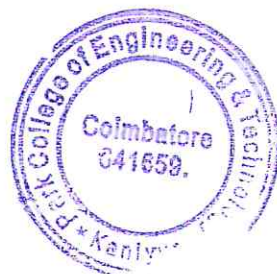
of

BACHELOR OF ENGINEERING

in

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BONAFIDE CERTIFICATE

Certified that this project report "WOMEN SAFETY AND ALERT SYSTEM USING GSM MODULE AND IOT" is the bonafide work of "GOWRI SHANKAR .S, NAVEENKUMAR .M, NITHYA SRI .C, POOJA.V.SHARMILI" who carries out the project under my supervision.

SIGNATURE

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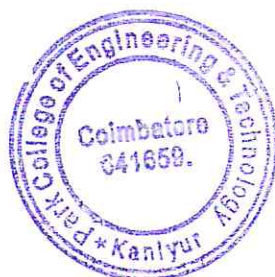
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ABSTRACT

In today's world both men and women are having equal responsibility in their works and competing with each other in all the fields. Women face challenges in the workplace and safety become a major issue in most of the countries. Increase of issues like sexual harassment is one of the common offense happening frequently and the thought haunting in women mind is how to move freely in streets during the odd hours. In such critical situations to help women, we proposed an idea of using Internet of things (IoT) for Women Safety with alarm. IoT interconnects billions of devices and exchange useful information which plays a vital role in women safety. This paper summarizes the various safety measures available for women and this task goes under the piece of keen security. New perspective of women security caution framework with Arduino is proposed which has the capacity of sending SMS alert to the relatives of the victim so that women can go out and do things without hesitation. Our framework additionally has one Arduino robber alert in the framework which detects and warns the authorized person on any unauthorized intrusion. Thus the proposed system is reliable, low cost and user friendly helps women to overcome their fear in critical situation.



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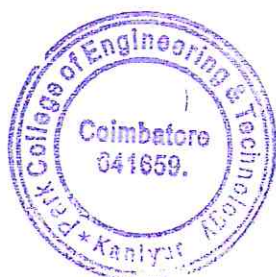
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CHAPTER - 6

CONCLUSION

IOT in Women's safety with alarm has been anticipated in this work to support the notion of smart cities. The proposed system involves Arduino UNO, GSM, GPS and various sensors. The GSM and GPS helps to send the message and location of the victim to the authorized network at the time of critical situation. Hence it becomes easy to find the appropriate location and major draw backs of this system is it may get failed in a closed or dumped area. To overcome this issue, we need to work with real time GPS location for a future scope and studies. And also have an idea of sending danger message to the surrounding public by their Ip locator.



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BOREWELL CHILD RESCUE SYSTEM USING IOT



A PROJECT REPORT

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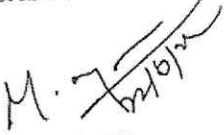
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Certified that the project report "BOREWELL CHILD RESCUE SYSTEM USING IOT" is the bonafide work of "ABINAYA.V, CHANDRU.P, SIVA PRASANTHINIR, SRI DHARAMA SASTHA.V" who carries out the project under my supervision.

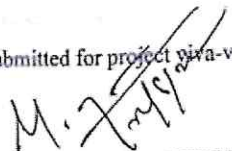

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ABSTRACT

For the past few years there have been several incidents of child falling into an open borewell, get trapped within and as a consequence many innocent lives were lost. Open bore wells are always a trap. And the accidents cannot be avoided till now. Therefore, a practical, safe and efficient rescue method becomes necessary. Still, the techniques to save life is impractical. This project aims to design a system that is capable of rescuing a child safely with ease and it can be done effectively in a short time period. The system consists of an object detection sensor, ultrasonic sensor and servo motors which provides the provision for the inclusion of different rescue methods, which greatly enhances the possibility of saving a life.




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CHAPTER 6

CONCLUSION AND FUTURE WORK

6.1 CONCLUSION

Human life is precious. Our bore well child rescue system is a significant attempt to save the life of the victim of bore well accidents. In the current design of bore well child saver machine has been made to suit every possible situation which may occur in rescuing operation. Further, we would like to conclude that with the help of our project, we would be able to rescue the child safely within short period of time.

6.2 FUTURE SCOPE

The future work of our undertaking is to consolidate Gas sensor which is used to check any deadly gas present in the bore well. Despite the fact that this, an oxygen test can be related which is used to supply oxygen to the child. A little vacuum unit with appropriate weight could be used to suck the dirty water particles that have been gathered over the trapped child.




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IoT BASED LIBRARY MANAGEMENT SYSTEM



A PROJECT REPORT

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THARANLM	712218106051

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BONAFIDE CERTIFICATE

Certified that this project report "IoT BASED LIBRARY MANAGEMENT SYSTEM" is the bonafide work of "ABINANDH.M. J, BANUMATHL.K, SRIDHARAN.R and THARANLM" who carries out the project under my supervision.

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ABSTRACT

Library are the treasure house of books, a place that provides unrestricted access to information of vast multitude in many formats. The systematic management of a huge library and the excessive manual routine work done by a librarian in maintaining the library has led to the idea of automating the entire library. The introduction of this project, IoT based library management system will helps us to the management system used in library. This project aims to build a library management system using IoT and RFID technology that will eliminate the tedious job of existing library management system using registers or manual way of keeping records of books and fine payments. RFID systems are becoming very popular nowadays as they play a very vital role in reducing human effort. In general practice students are unaware of availability of books in the library. With the help of using IoT technology students can easily check the availability of books in the library. The intimation message of books due date will be sent to students, so they can aware of the return of the book to the library. The students can also avoid penalties of by the help of message notifications regarding due dates.




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CHAPTER-5

CONCLUSION AND FUTURE SCOPE

5.1 CONCLUSION

In this project we have presented a new system to take a book and charging them fine based on the delay. The system includes detecting due dates at real time and also, it is quite simple to implement and has less maintenance. Due date can be found very easily and the process is fast. We can search the availability of the books from anywhere using Mobile application whenever needed. The system replaces the existing fine generation method and book searching methods where a human assistance is necessary to monitor. Hence it is suitable for all the libraries.

5.2 FUTURE SCOPE

In future the proposed system can be improved by using advanced GPS and IoT technologies to make this methodology more user friendly. PS systems like Vyncs, GeoZilla with the long capabilities can be used for searching, selecting, entry data of the book taken with exact location and alternative book suggestions when there is unavailability.




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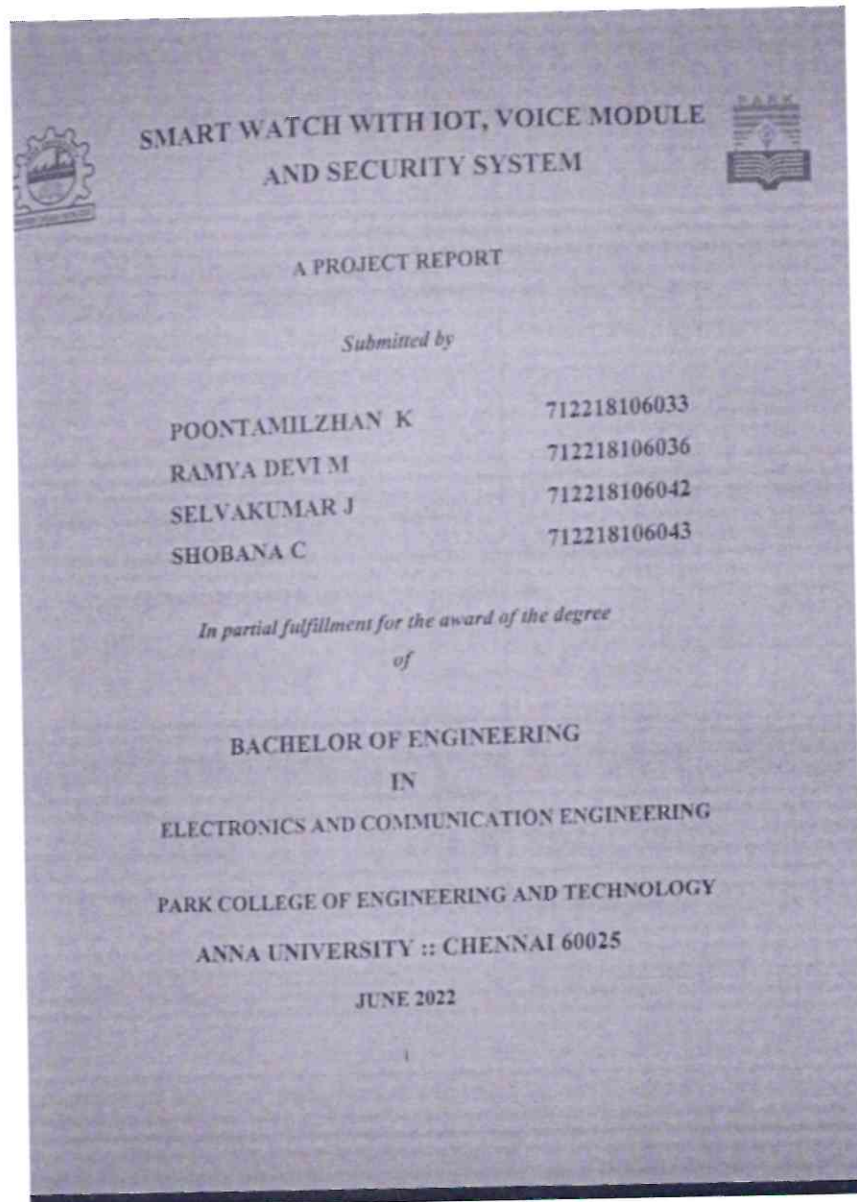



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Certified that this project report "SMART WATCH WITH IOT VOICE MODULE AND SECURITY SYSTEM" is the bonafide work of "POONTAMIZHAN K, RAMYA DEVI M, SELVAKUMAR J, SHOBANA C" who carries out the project work under my supervision.

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ABSTRACT


Recently, many people have become more enlightened when it comes to heart issues. With the increasing popularity of smart wearable devices and the tremendous advancements in mobile phone the opportunity has arisen to offer an IoT (Internet of Things) solution.

There is an urgent need to develop an effective heart health monitoring system that can detect abnormal heart conditions in a timely manner and send the collected data to a relative.

Out-of-hospital survival rates for people with sudden heart attack and cardiac arrest are unfortunately poor. The aim of the work is to present an intelligent system that uses a custom smart IoT watch that can collect cardiac data and other health parameters to give an early warning of heart abnormalities. In this modern world, there is a rising interest in wearable fitness bands and healthcare-based smart watches and they are commercially available to monitor personal health care, fitness, and activity awareness.

In this system, various sensors have been used with an Arduino and nodeMCU microcontroller to monitor heart rate, body temperature, stress rate, blood pressure rate, and oxygen level of our body. By using this technology, we can detect the people who are at risk of death. This plays a major role to avoid heart-related deaths in mere future.




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CHAPTER 6 CONCLUSION

6.1 CONCLUSION

The main implementation of the project is to detect the heart related issues and reduce the early death of the patients. It determines the heart rate and gives periodical information. IOT technology paves a way to achieve rapid technological growth in medical field. It helps to convey the health issues about the person in timely manner.

This developing technology monitors the patient to get alert message at any time without depending on hospitals.




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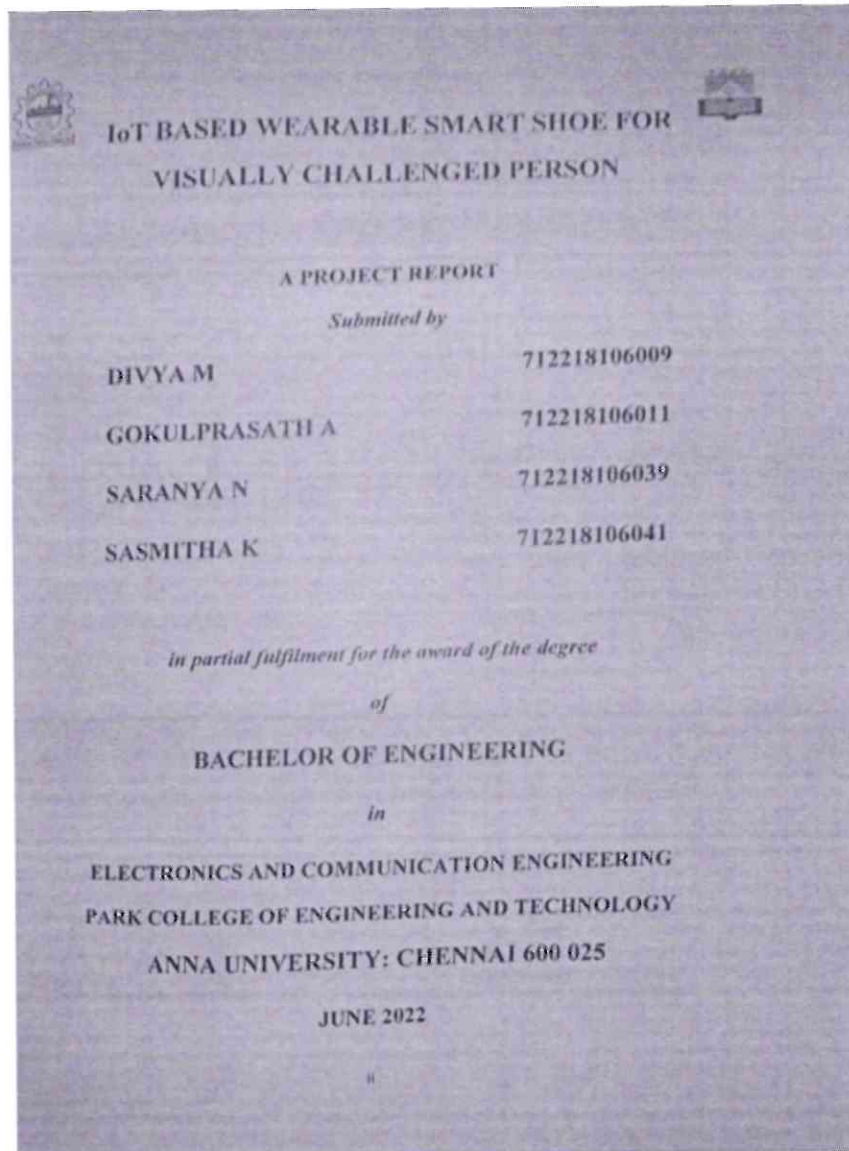



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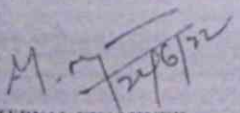
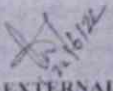
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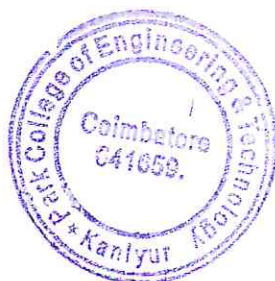
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ABSTRACT

The Visual Impairment of a person results in wide range of difficulties in day-to-day life. Many accidents, injuries and collisions may occur during their transportation as they are unaware of the obstacles present on their path. They have major risk factors in migrating from one place to another place individually. To mitigate this setback IoT based electronically aided smart shoe for visually challenged people has been designed for their better transportation. This work is carried out for the visually impaired people to assist them to avoid the obstacles and also to climb upstairs.

The proposed system will detect the obstacles up to certain distance and send an alert message to the user either in audio or vibration form. It has been worked via Node MCU, vibration motor and ultrasonic sensors. Vibration motor will make vibration as and when an obstacle is sensed along the path and buzzer will be switched ON. In case of emergency, the current location will be intimated to the emergency contacts through E-mail by pressing the Emergency Key. These functions are monitored by IoT which helps the blind people to identify the object present on their way through an alarm and hence avoid discomforts of any sort by using Node MCU.




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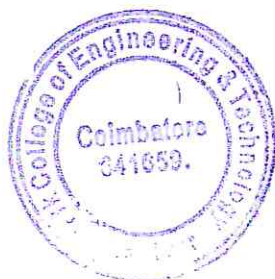
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CHAPTER - 7

CONCLUSION

This project proposed the design and architecture of a new concept of smart shoe for visually impaired people. The advantage of the system lies in the fact that it can prove to be very low-cost solution to millions of visually impaired people worldwide. Node MCU controller, vibration motor and ultrasonic sensors are used in each shoe. All the conceptual requirements are fulfilled by the planned model. With the buzzer tone, the final output from the smart shoe would easily be able to find the barriers. The findings are in line with planned output. Smart shoes are useful for walking on the road independently and safely.

A buzzer is configured to produce a sound if the obstacles are detected. This framework would empower those on the road to walk safe. For every visually impaired person, this overall SMART framework proposed would be a better future. The smart shoe would also help the visually impaired at a low cost. This can then be applied on the embedded framework later. It can be further improved to have more decision taking capabilities by employing varied types of sensors and thus could be used for different applications. It aims to solve the problems faced by the visually impaired people in their daily life. The system also takes measures to enable their safety.




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SMART 2FV – 3 FACTOR PRODUCTION

VALUT SECURITY SYSTEM



A PROJECT REPORT

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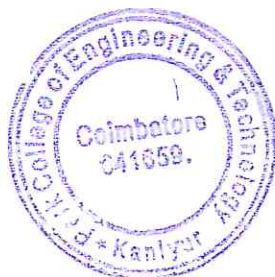
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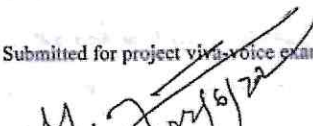

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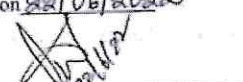
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ABSTRACT

This paper will focused on effective recognizing and controlling system for Bank locker room which is fully self-determining. In cases of robberies, it's commonly happen that the banned entrance in the locker room area which can be detected by our security system. If the robbery take place the banks are not be capable to recognize the robber due to absence of the proof by using the current human operated security system. Development of various sensors has enabled systems to have preventive and corrective measures in this regard significantly. In order to deliver a concrete security solution for critically important and confidential documents and goods, we proposed an Automated Safety Vault with Double Layered Defense Mechanism. The solution comprised of an Electronic Lock driven by password verification and a Biometric authentication for users using a Fingerprint scanning and sensing tool. Both of these two layers ensured the authenticity of the user by preventing any unauthorized access to the Vault. The system was then implemented in a prototype scope for testing and validation of the proposals. The implemented system and testing data showed that the Automated Safety Vault with all its security features had successful operation. The specification of the whole system as well as the results is observed and verified.




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CHAPTER 6

CONCLUSION AND FUTURE ENHANCEMENT

6.1 CONCLUSION

In this paper, the design and implementation of a prototype of an automated vault door locking system is presented which warrants double layer of security. It ensures the proper user of the vault by securing the door with numeric password and biometric authentication. It monitors the conditions of operation of the vault from both the inside and the outside by employing several sensors which are continuously feeding information to the controller of the proposed system to confirm the robustness in terms of rightful access and security of the contents within the vault. The entire system can be easily managed with all the status updates being reeled by the controller to the administrators eliminating the unforced reasons of human errors. The future enhancement to this work could be done by adding some more aspects. Therefore it improved the reliability of bank locker and unauthorized access will be minimized. The enhancement could be further applied to identify the illegal entrance.

6.2 FUTURE WORK

In the coming future, the proposed system could be further fitted with infrared emitting system in order to identify the people face, if they cover their face using mask. Apart from this we can interface thermostat or control device which will control the temperature range within the organization. Further system can be fitted with video surveillance for improved safe and secured environment. Adaptive advanced encryption technique can ensure strong cyber security. FUTURE RECOMMENDATIONS Future work recommendations may be including, the possibility of using Raspberry to develop work. Attempt to develop the security system with using advance cameras which to connect the internet which is sent by SMS to the security center. Possibility of adding new sensors to increase protection.




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RAILWAY TRACK MONITORING AND ACCIDENT AVOIDING SECURITY SYSTEM



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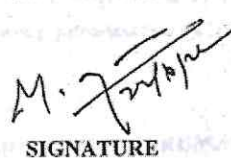

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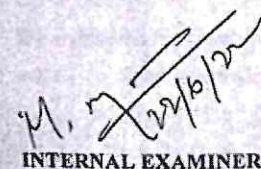
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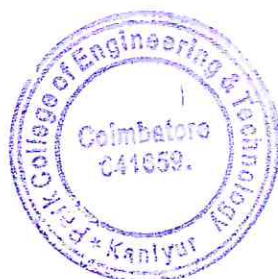
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ABSTRACT

The railway system is an important transportation system in our country. The railway has become a prime means of transportation owing to their capacity, speed, and reliability even a small improvement in the performance of railways has significant economic benefits to the rail industry. Most of the trains in our country are the induction trains and hence there are chances of fire mishaps. Fire on a running train is more catastrophic than on a stationary one since fanning by winds helps spread the fire to other coaches very soon after the accident.

Moreover, passengers sometimes jump out of a running train on fire resulting in increased casualties. In this project, we had planned to implement an adaptive security system that will continuously monitor parameters such as Obstacle detection, fire, smoke level, etc, and take adaptive security to rescue the lives and provide information to the concerned authority regarding the issue. With changes taking place in the field of electronics fabrication, units placed within every bogie can be embedded on a single board thereby making it compact size. Human lives that cannot be evaluated will be under trouble due to the above-mentioned problem. So, we got motivated to overcome this problem, at least reduce the above-mentioned problem by using Embedded system design technology.




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CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 CONCLUSION

The proposed approach to implement a smart train detector device though a new concept as one of the recent technologies, But, taking into consideration of external factors such as climate, whether conditions, man-made disasters, and much more, its implementation shall encounter some challenges owing to it. Thus, it will be necessary that post the basic implementation, the device should be tested not only in the workplace but also in the real time environment it so that it shall be beneficial for the railways in terms of more safety and security.

6.2 FUTURE SCOPE

With changes taking place in the field of electronics fabrication, units placed within every bogie can be embedded on a single board thereby making it compact size. Detect the eddy currents in the railway tracks.




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FACE BIOMETRIC AUTHENTICATION SYSTEM FOR ATM USING DEEP LEARNING



A PROJECT REPORT

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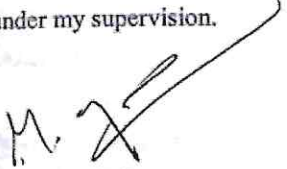
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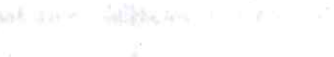
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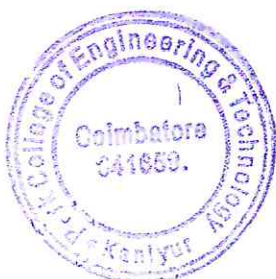
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ABSTRACT

Automated Teller Machines also known as ATMs are widely used nowadays by each and everyone. So there is an urgent need to improve the security in banking sector. Due to tremendous increase in the number of criminals the ATM has become insecure. Which uses not more than an ATM card and PIN for identity verification. The recent development in biometric identification techniques, including finger printing, retina scanning, and facial recognition have made a great effort to improve the security at ATM. This project proposes an automatic teller machine security model that combines a physical access card and electronic facial recognition using method Deep Convolutional Neural Network. If this technology is employed, bank accounts will secured with facial recognition. Face Verification Link will be generated and sent to user to verify the identity of an unauthorized user who wants an access to the account through some dedicated artificial intelligent agents, for remote certification. Eventually as a man's biometric features cannot be replicated, this proposal will go a long way to protect the problem of account safety by which only the account owner will have access to his account.




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CHAPTER 7 CONCLUSION AND FUTURE ENHANCEMENT

Conclusion

Biometrics as means of identifying and authenticating account owners at the Automated Teller Machines gives the needed and much anticipated solution to the problem of illegal transactions. In this project, we have developed to proffer a solution to the much-dreaded issue of fraudulent transactions through Automated Teller Machine by biometrics and Unknown Face Forwarder that can be made possible only when the account holder is physically or far present. Thus, it eliminates cases of illegal transactions at the ATM points without the knowledge of the authentic owner. Using a biometric feature for identification is strong and it is further fortified when another is used at authentication level. The ATM security design incorporates the possible proxy usage of the existing security tools (such as ATM Card) and information (such as PIN) into the existing ATM security mechanisms. It involves, on real-time basis, the bank account owner in all the available and accessible transactions

Future Enhancement

In the future, the recognition performance should be further boosted by designing novel deep feature representation schemes.




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SATCHAIN:GEO NETWORK SECURITY MECHANISM BASED ON BLOCKCHAIN, QKD PROTOCOL USING IOT



A PROJECT REPORT

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ABSTRACT

The sixth generation (6G) networks are expected to provide a fully connected world with terrestrial wireless and satellite communications integration. Due to physical constraints of a satellite in terms of available power and area, data processing capacity is low, storage and security are limited such that the data may be vulnerable to tampering or contamination by attackers. Since satellite communication has been more and more important in developing global communication networks, there have been concerns about the security in satellite communication. It is a challenge to protect satellite network from illegal information access and use storage space effectively. In this project, a blockchain technology and QKD protocol based on authentication and privacy protection scheme is proposed for a satellite communication network. To this aim, an architecture consisting of both conventional and restricted devices connected to the blockchain via a wireless heterogeneous network is deployed. The communication is carried out through registration, authentication and revocation. In this scheme, the satellite will forward the collected information to the base station, which records all key parameters on the distributed blockchain and all malicious node certificates will be cleared from the blockchain by the base station. The proposed satellite-based Blockchain and QKD system provides high level of security for the coming 6G network and beyond the Internet of things, self-driving cars, and other fast-developing applications.




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CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Conclusion

The satellite communication channel is different not only from the common mobile channel but also from the ground station channel. The satellite communication channel is the fusion of the satellite channel and the mobile communication channel. Satellite communication channels are extremely vulnerable to hackers and external interference signals. Protecting satellite networks from illegal information access and use can be extremely challenging. In this project, Quantum Key Cryptography and blockchain technology is introduced to analyze the security of satellite communication networks in terms of access control, confidentiality, and security authentication. The proposed scheme is developed to solve the security problem of using a centralized database in satellite communication. The simulation results show that the proposed method was able to significantly improve security and protection for satellite communications.

6.2 Future Scope

In the future, the blockchain-satellite system will depend on cloud constellations for managing data centers in orbit, where companies can upload their data and bypass ground networks; this approach will help governments and companies obtain information from different sources and orbits in space.




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IOT BASED COAL MINE SAFETY MONITORING AND ALERTING SYSTEM



A PROJECT REPORT

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ABSTRACT

For this project, a coal mine safety system is implemented by the use of a webpage as a medium to transmit the data. The device is introduced to monitor various parameters inside the coal mines, such as light detection, gas leakage, temperature and humidity conditions, and fire detection. This system of sensors is known as one large device and is mounted in the coal mines. All the sensor rankings are automatically fed into the thinking processors, which generates a multitude of ideas for them to explore. Here, gas monitoring equipment is still running in order to detect any possible issues, and a buzzer is used to warn the staff. Laser-detection (LDR) sensors are used in this framework to detect the presence of light. Automatically lights illuminate when you have them on, and they can be operated using the LED button. To ensure the proper response to any potential fire hazard, a notice is sent to the mail of the designated individual. A collection of constantly measured and recorded temperature values is available as well, shown on the serial monitor and the website platform. Additionally, a vibration sensor is used to detect any movements in the mine.




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CHAPTER – 6

6.1. CONCLUSION

The development of coal mining protection for employees using Arduino, Gas Sensor, LDR, Temperature and Humidity Sensor continues to track the safety of mining and update information to the IoT site. By using this tool, we guarantee the safety of workers.

6.2. FUTURE SCOPE

- 1) The project is built from easily available and reasonably priced components. Therefore, the cost is reasonable and maintenance is easy.
- 2) This project is crucial in the coal mining industry and is critical for the health and safety of the mine workers.
- 3) The crucial parameters from inside the mine can be monitored from anywhere in the world by the supervisors and manager using the remote IOT platform. This can result in better management and improved production standards




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MEMBOT: FUTURE SMART WBANS FOR HUMAN MEMORY DATA UPLOADING AND DISTRIBUTION



A PROJECT REPORT

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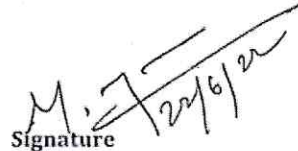
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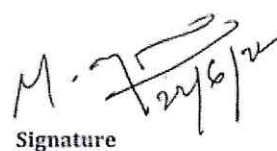
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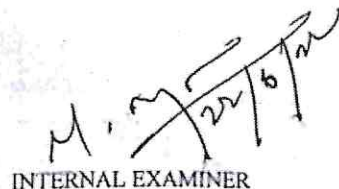

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ABSTRACT

We live in a world permeated with technology. One's last will and testament is an important document which details who will get your assets and belongings after death. Most people spend a lot of time getting their will just right but fail to make sure their will is stored in a safe place where it can be easily found after their death. No matter where you choose to keep your will, you should let your executor, alternate executor and close family members know that the will has been created, where it is being stored and how they can access it if something happens. In this scenario memory uploading, also known as brain data emulation (BDE), is the hypothetical futuristic process of uploading a memory data of the brain accurately enough to create an emulation of the mental state (including long-term memory and "self") and copying it to a computer in a digital form. The main aim is to upload human asset data into a MemBot. After the death of the body, the brain data emulation will act as the man's brain. Such models will shed light on how memories are stored and retrieved. This could reveal many exciting aspects of the brain, such as the forms of memory, memory capacity and how memories are lost.

This project contains two sensors wireless body area sensor network named LiveBot and Memory uploading and distribution device MemBot. This sensor is a wireless network of wearable computing devices. BAN devices may be embedded inside the body, it gathers energy from the body temperature and communicate with the MemBOT, which acts like Brain Data Emulator. Through this sensor we can store our secret and our intelligence with the help of PC or Mobile. We can use the testamentary or will of a person after the death.




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CHAPTER 6

CONCLUSION AND FUTURE SCOPE

9.1. Conclusion

This Project title is Building a MemBot to life for the secrets. This project was developed to store the secret information of the user. User can store their secret information into this site. Then login and view the information and also modify the information. When the user is not available the information was shared to user's relatives or friends. This system was implemented successfully. Then information was secured using this website. With the advancements in technology, human who is the ultimate source of information and discovery should also be preserved. A human does not live for thousands of years but the information in their mind could be saved and used for several thousands of years. The whole idea is that memory, mental illness and perception triggered by neurons and electric signals could be soon treated with a supercomputer that models nearly all the 1,000,000 million synapses of the brain.

9.2. Future Scope

In future we provide high security to this application. Before sending the information to the relative's system will ask question to the relatives. User already stores the question and answer also. Relative give correct answer to the question then information is forwarded to the relative. And also, we create android application for this concept in future.




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FIRE ALERT MONITORING SYSTEM FOR CAR PARKING



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ABSTRACT

Safety is one of the important factors that should be considered either in the parking area, workplace, home area and so forth. In the university parking area, the students are unable to receive any information regarding a fire smoke or an accident near their vehicle. In addition, the parking safety also not assured due to the shortage of car superintendence and there is no any strict parking management by the security officer. Therefore, a fire smoke alert monitoring system in the university parking area is necessary in order to prevent any accidents that may cause property breakdown and loss of life as happens inside the university area. This system should be introduced since the existing parking is unsystematic and less efficient as it unable to response the complications that are regularly happen to the students because they do not receive any information regarding a fire smoke or an accident near their vehicle in the parking area. With this new system, a few advancements are implemented in order to help the students in various aspects by using multiple and distinct Arduino devices. Moreover, an android application is developed to facilitate the security officer in order to identify the car information that are involved in the accident that might be occur in the university parking area.




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CHAPTER 6

CONCLUSION

The car parking fire smoke alert monitoring system is developed in order to generate a more systematic and efficient parking system by using Arduino and android application. This system that able to track and trace the fire smoke in the parking area by processing the smoke sensitivity value that are taken by the MQ-2 natural gas smoke sensor. Then, this prototype system will notify the student by generating fire smoke information by using a multiple and distinct Arduino devices. Moreover, the student also needs to register their information by using an android application and the information will be stored into the database. This IoT system is easy to install and maintain as it requires very low technical skills and knowledge for device handling.




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