ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS.

(Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPRTMENT

OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is certify by Major-Project Work entitled "DESIGN AND IMPLEMENTATION OF WOMEN SAFETY SYSTEM BY UTILIZING GPS AND GSM " is being submitted by the following student during the academic year 2022-2023 in practical fulfillment for the award of the **B. Tech** Degree in ELECTRONICS AND COMMUNICATION ENGINEERING

Specialization affiliated to JNTU, HYDERABAD.

KONNURU SWETHA	19T81A0439	MUDAVATH NARESH	19T81A0420
B. GLORY SUZAN	19T81A0406	JELLA NEHANTH	19T81A0422

This record is a Bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/guide **Coordinator Faculty** **HOD**

Major-Project Viva-Voce Exam Held on Dated 28-06-23

Internal Examiner

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

External Examiner

"DESIGN AND IMPLEMENTATION OF WOMEN SAFETY SYSTEM BY UTILIZING GPS AND GSM "

Abstract:

The world is becoming unsafe for women in all aspects. The crime against women is increasing at a higher rate. The employed women are feeling unsafe due to increasing crimes. This paper proposes a quick responding mechanism that helps women during trouble. When someone is going to harass, she can just press the button and the location information is sent as an SMS alert to few pre-defined numbers in terms of latitude and longitude. The controller is used for this process. It is interfaced with a push button, a GPS module in a GSM modem and an LCD Display (16×2). If the switch is pressed, the controller takes the current location information from the GPS module and send those data to the predefined no. using a GSM modem. The purpose of this project is to feel safe the women.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCE

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS.

(Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Major Project Work entitled **"INTELLIGENT AMBULANCE WITH AUTOMATIC TRAFFIC CONTROL"** is being submitted by following students during academic year 2019-2023 in practical fulfillment of the requirement for the award of the B. Tech Degree in **ELECTRONICS AND COMMUNICATION ENGINEERING** Specialization affiliated to JNTU, HYDERABAD.

S. VENKATESH	**(19T81A0443)**	**E. SHREYA REDDY**	**(19T81A0437)**
S. SUPRAJA	**(19T81A0436)**	**A. YASHWANTH**	**(19T81A0447)**

This record is a Bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/Guide ***coordinator sign*** ***HOD***

Major-Project Viva-Voce Exam Held on Dated

Internal Examiner *External Examine*

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

INTELLIGENT AMBULANCE WITH AUTOMATIC TRAFFIC CONTROL

ABSTRACT:

The Automation for Vehicles is the current trend, the project presented here is one such idea in automating the movements of important vehicle like Ambulance & Fire Fighting Vehicle etc., here the idea is to ease the movement of Ambulance by detecting its proximity to the hospital and displaying the arrival of the same on a display device like LCD. The project also serves as an automated parking tool for the staff vehicles like Doctor's car, Ambulance, Hospital van etc., Here whenever a vehicle equipped with its RFID is detected in a few range, the project automatically identifies the type of the vehicle & depending upon the priority set, activates the automated gate. Here the project also decodes the approaching vehicles code, and based on the information vehicle transmits, takes decision like displaying an emergency alarm.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS. (Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Major Project Work entitled

"AUTOMATIC RAILWAY TRACK FAULT DETECTION AND LOCATION SYSTEM USING ROBOT" *is being submitted by following students during academic year 2022-2023 in practical fulfillment of the requirement for the award of the* ***B. Tech*** *Degree in*

ELECTRONICS AND COMMUNICATION ENGINEERING

Specialization affiliated to JNTU, HYDERABAD.

Y. UPENDRA	**(19T81A0440)**	**G.SAI KIRAN**	**(19T81A0434)**
K. AKHILA	**(19T81A0402)**	**UDAY PRASAD TIWARI**	**(19T81A0425)**

This record is a Bonafide work carried out by them under my guidance and supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/Guide ***coordinator sign*** ***HOD***

Mini Project Viva-Voce Exam Held on Dated 28/06/2023

Internal Examiner *External Examiner*

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

ABSTRACT:

The Transportation of train always depends on railway tracks (rails) only. If there is a crack in these rails, it creates a major problem. Most of the accidents in the train are caused due to cracks in the railway tracks, which cannot be easily identified. Also, it takes more time to rectify this problem. In order to avoid this problem, we are using the crack detector robot, which detects the crack in the rails and gives an alarm. A robot is an apparently human automation, intelligent and obedient but impersonal machine. It is relative, that robots have started to employ a degree of Artificial Intelligence (AI) in their work and many robots required human operators, or precise guidance throughout their missions. Slowly, robots are becoming more and more autonomous. Use of robots gives accurate and correct results compared to human interference. This system involves the design of crack finding robot for finding cracks in railway tracks. System uses controller for interfacing the robotic vehicle and crack detection sensor. The sensing device senses the voltage variations from the crack sensor and then it gives the signal to the microcontroller. The microcontroller checks the voltage variations between measured value and threshold value and controls the robot according to it. The robotic model is interfaced with the microcontroller with the help of SPDT relays and driver IC. If any crack occurs in the rail, the robot will be stopped and then an alarm will be raised. Keywords: Track, Vehicle, Detection, Buzzer, Signal, Control, Network etc.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCE

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS.

(Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT

OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is certify by Major Project Work entitled "SURVEILLANCE ROBOT CONTROLLED BY USING AN ANDROID APPLICATION" is being submitted by the following student duringthe academic year 2022-2023 in practical fulfillment for the award of the **B.Tech** Degree in ELECTRONICS AND COMMUNICATION ENGINEERING Specialization affiliated to JNTU, HYDERABAD.

CH.AMULYA	**(19T81A0403)**	**G.VINOD KUMAR REDDY**	**(19T81A0445)**
K.SAI GANESH	**(19T81A0433)**	**K.NEHA REDDY**	**(19T81A0421)**

This record is a bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Internal guide | **Coordinator Faculty** | **HOD**

Major Project Viva-Voice Exam Held on Dated 08-06-2023

Internal Examiner

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

External examiner

ABSTRACT

Surveillance Robot controlled using an Android application.

The robotics and automation industry which is ruled the sectors from manufacturing to household entertainments. It is widely used because of its simplicity and ability to modify to meet changes of needs. The project is designed to develop a robotic vehicle using android application for remote operation attached with wireless camera for monitoring purpose. The robot along with camera can wirelessly transmit real time video with night vision capabilities. This is kind of robot can be helpful for spying purpose in war fields. The wifi technology is relatively new as compared to other technologies and there is huge potential of its growth and practical application. The android application loaded on mobile devices, can connect with security system and easy to use GUI. The security system then acts on these command and responds to the user. The CMOS camera and the motion detector are attached with security system for remote surveillance. A robot is a machine capable of carrying out a complex series of actions automatically, especially one programmable by a computer. A robot can be controlled by a human operator,sometimes from a great distance. In such type of applications wireless communication is more important. This paper also shows general idea and design of the robot. Surveillance security robot provides safety like man.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCE

Piglipur, Batasingaram Panchayath, Hayat Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS.

(Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Major-Project Work entitled

"EMG BASED HOME DEVICE CONTROL SYSTEM" *is being submitted by following students during academic year 2022-2023 in practical fulfillment of the requirement for the award of the* ***B. Tech*** *Degree in* ELECTRONICS AND COMMUNICATION ENGINEERING

Specialization affiliated to JNTU, HYDERABAD.

B. AJAY	19T81A0401	K. JYOTHSNA	19T81A0411
A. PRAVINYA	19T81A0427	K. BHANUCHANDER	20T851A0401

This record is a Bonafide work carried out by them under my guidance & supervision. The Result (s) embodied have not been submitted t o any other University/Institution for the award of any Degree

Supervisor/Guide ***coordinator sign*** ***HOD***

Mini-Project Viva-Voce Exam Held on Date: 28/07/2023

Internal Examiner *rnal Examiner*

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

DTMF BASED HOME DEVICES CONTROL SYSTEM

ABSTRACT:

In Mobile Controlled Home Automation using DTMF (GSM), a smart logic control based on embedded systems has been implemented. The DTMF based home automation is controlled by mobile signals. Mobile controlled Home Automation system using DTMF technique is all about controlling a relay using DTMF (GSM) decoder. The relay is controlled from a mobile phone even at a faraway distance by making a call to the Receiver GSM attached to the DTMF decoder in the home automation system. During the course of the call, if any button is pressed, the tone corresponding to the button pressed is heard at the other end. This tone is called "Dual Tone Multi Frequency tone (DTMF)".Using DTMF code, each relay corresponding to a particular code turns ON/OFF. The relay will be attached to a corresponding appliance at home. When each appliance needs to be turned ON , the corresponding relay needs to be ON as well.

Proposed system :

Using the micro controller the project is designed in which the DTMF (GSM) module is connected to the microcontroller. The whole device just runs with total of 12v in which 5v are enough for the MC to process. From user mobile phone need to do a call and press buttons on dial pad. At the receiver section it receives at different frequencies. Based on the design of project particular number is assigned to a device for ON and OFF. The device which we initially made and can be miniaturized in future for real time use.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS. (Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Major Project Work entitled "WI-FI HOTSPOT CONTROLLED ROBOT" *is being submitted by following students during academic year 2022-2023 in practical fulfillment of the requirement for the award of the* ***B. Tech*** *Degree in*

ELECTRONICS AND COMMUNICATION ENGINEERING

Specialization affiliated to JNTU, HYDERABAD.

V.GOUTHAMI	**(20T85A0402)**	**J.BHARATH REDDY**	**(19T81A0405)**
D.RENUKA	**(19T81A0432)**	**A.GOPALA KRISHNA**	**(19T81A0407)**

This record is a Bonafide work carried out by them under my guidance and supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/Guide ***coordinator sign*** ***HOD***

Mini Project Viva-Voce Exam Held on Dated 28/06/23

Internal Examiner *External Examiner*

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

WIFI HOTSPOT CONTROLLED ROBOT

Abstract:

In this article, a simple-designed mobile robot built up from cost-effective parts is introduced. The mobile robot can be controlled via WiFi wireless hotspot network with the help of a simple application. Due to the cheap and simple design of the robot, it may be a useful developing tool for those, who can not afford themselves a much more expensive robot. Its ESP8266 chip based (manufactured by Espressif Systems) modules are cost-effective tools of performing WiFi wireless control functions, so the control of this robot has been achieved by applying this chip. That such designed device may be a quite useful example in education as well, regarding the fields of informatics and meachatronics, where the programming and applying of the embedded systems can be introduced through practical examples

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS.

(Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPRTMENT

OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is certified by Major-Project Work entitled "FLOOR SANITIZING AND CLEANING ROBOT CONTROLLED USING APP" is being submitted by the following student during the academic year 2022-2023 in practical fulfillment for the award of the **B. Tech** Degree in ELECTRONICS AND COMMUNICATION ENGINEERING Specialization affiliated to JNTU, HYDERABAD.

G. SWATHY	**19T81A0423**	**B. RAKESH**	**19T81A0429**	**B. MAHESH**	**19T81A0416**
P. VAISHNAVI	**20T85A0407**	**P. JAYA KRISHNA**	**19T81A0410**		

This record is a Bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/guide **Coordinator Faculty** **HOD**

Major-Project Viva-Voce Exam Held on Dated 28/06/2023

Internal Examiner

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

External Examiner

FLOOR SANITIZING AND CLEANER ROBOT CONTROLLED USING APP

Abstract:

We are now living in the 21st century. Now, smart phone has become the most essential thing in our daily life. Android application based smart phones are becoming each time more powerful and equipped with several accessories that are useful for Robots. This project describes how to control a robot using mobile through Bluetooth communication, some features about Bluetooth technology, components of the mobile and robot. We have designed and developed a robotic car with simple architecture by assembling open source hardware, Bluetooth module and advanced sensors. We have also developed an android application running on a smart phone which monitors and controls the operation of the robot via Bluetooth. We present a review of robots controlled by mobile phone via moving the robot upward, backward, left and right side by the android application. We derived simple solutions to provide a framework for building robots with very low cost but with high computation and sensing capabilities provided by the smart phone that is used as a control Robot.

This project is a Bluetooth controlled robot. For this the android mobile user has to install an application on her/his mobile. Then user needs to turn on the Bluetooth in the mobile. The wireless communication techniques used to control the robot is Bluetooth technology. User can use various commands like move forward, reverse, stop move left, move right. These commands are sent from the Android mobile to the Bluetooth receiver. **Android based robot** has bluetooth receiver unit which receives the commands and give it to the microcontroller circuit to control the motors and clean th

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS. (Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the MAJOR-Project Work entitled

"SOLDIER TRACKING SYSTEM WITH EMERGENCY ALERT" *is being submitted by following students during academic year 2022-2023 in partial fulfillment of the requirement for the award of the* ***B.Tech*** *Degree in* ELECTRONICS AND COMMUNICATION ENGINEERING **Specialization affiliated to JNTU, HYDERABAD.**

G.NAGA VINAY	**(19T81A0419)**
P.SANDHYA RANI	**(20T85A0405)**
B.RATHNAKAR	**(19T81A0431)**
G.RADHIKA	**(19T81A0428)**

This record is a Bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/Guide *coordinator sign* *HOD*

Major-Project Viva-Voce Exam Held on Dated 28/06/2023

Internal Examiner *External Examiner*

PRINCIPAL
Annamacharya Institute of Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

ABSTRACT

In today's era enemy warfare is an important factor in any nation's security. The national security mainly depends on army (ground), navy (sea), air-force (air). The important and vital role is played by the soldiers. There are many concerns regarding the safety of these soldiers. The defense department of country must be effective for the security of that country. This system will be useful for soldiers, who involve in missions or in special operations. This system enables GPS (Globalpositioning systems) tracking of these soldiers. We are going help the soldier in panic condition, as control room people we are able to communicate with them by means of GSM. Thus we are able to help them in panic Condition.

From the control room we can trace the soldier location exactly and accurately by using google maps by sending some command to soldier kit so it automatically trace his location and revert back with an auto reply via SMS. If the soldier faces any problems in the field we are providing an emergency switch so by this soldier can give some information regarding his problems and location through SMS by using GPRS technology.

In our project we have come up with an idea of tracking soldier as well as to give status of the soldier during the war.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCE

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS.

(Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT

OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Major-Project Work entitled

"STREET LIGHTS FAULT DETECTION WITH INTERNET OF THINGS" *is being submitted by following students during academic year 2022-2023 in practical fulfillment of the requirement for the award of the* ***B. Tech*** *Degree in* ELECTRONICS AND COMMUNICATION ENGINEERING *Specialization affiliated to JNTU, HYDERABAD.*

N. KEERTHI HARSHITHA	**(19T81A0412)**
B. KLITHIKA REDDY	**(19T81A0413)**
B. SHIVA SAI	**(19T81A0435)**
M.VISHNUVARDHAN REDDY	**(19T81A0446)**

This record is a Bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/Guide ***coordinator sign*** ***HOD***

Technical-seminar Viva-Voce Exam Held on Dated

Internal Examiner *External Examiner*

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

ABSTRACT

The IoT (Internet of Things) is a blooming technology that mainly concentrates on the interconnection of devices or components to one another and the people. As the time being, many of these connections are changing as —Device – Devicel from —Human to Devicel. Finding the faulty street light automatically is become a vital milestone by using this technology. The primary goal of the project is to provide control and identification of the damaged street light automatically. The lighting system which targets the energy and automatic operation on economical affordable for the streets and immediate information response about the street light fault. In general, the damage of the street light is observed by getting the complaints from the colony (street) people. Whereas in this proposed work using sensors these lights working status is easily captured without any manual interaction. So that it reduces manual efforts and the delay to fix problems. So, to reduce such problem we come with the solution wherein automatic detection of street light issues i.e.; whether the street light is working or not will be found at night time and it should send the notification to the authorized person if there is a problem in particular streetlight and also know the pole number place where the streetlight is damaged. The street lights are automatically ON/OFF. In this system, it checks whether the street light is ON/ OFF. The LDR sensor will ON/OFF the street lights automatically, based on the condition of the weather.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512,
TS. (Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the MAJOR-Project Work entitled

"HUMAN DETECTION ROBOT IN RESTRICTED AREAS" *is being submitted by following students during academic year 2022-2023 in partial fulfillment of the requirement for the award of the* ***B.Tech*** *Degree in* **ELECTRONICS AND COMMUNICATION ENGINEERING**
Specialization affiliated to JNTU, HYDERABAD.

MITTAPALLY VENKAT	**(19T81A0442)**
NALLAVELLY SRIVANI	**(20T85A0406)**
BOREDA MANIKANTH	**(19T81A0417)**
M PRADEEP KUMAR	**(19T81A0424)**
PADAMATINTI KEERTHANA	**(20T85A0404)**

This record is a Bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/Guide ***coordinator sign*** ***HOD***

Major-Project Viva-Voce Exam Held on Dated 28/06/2023

Internal Examin *External Examiner*

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

ABSTRACT

The main aim of this embedded application is to design a PC monitoring Robot which can detect live humans and rf transmit the signals wirelessly. It can also be used in war fields and places where disaster has occurred. Human detection is also required in hazardous sectors like boilers, reactors where only authorized person can enter. The live body sensor in this project is a special type of sensor known as PIR sensor. Any alive body with a temperature above absolute temperature emits radiations which are invisible to the normal eye. It senses these passive infrared rays to detect the live human. Human identity is carried out using a Human live detection sensor. The PIR sensor is used to detect the motion in any kind and will inform to micro controller. In this project we are using RF based wireless system for the efficient communication. If the micro controller unit receives the detected signal, it will monitor on pc. The aim of this project is to provide a prototype of practical design to build a simplified version of a Human detection robot which has to be implemented during calamities to find the casualties. Humans can be used for rescuing people in these areas, but due to high risk of earthquakes and building collapses it is not possible to send human rescue teams in these areas. Thus an affordable high technology equipment which makes this risky job quicker and safer is needed for the hour, which has been described in this paper. It is a simple, yet efficient equipment to indicate casualties and help them with immediate access to first aid.

Proposed system:

The main aim of this embedded application is to design a monitoring Robot which can detect live humans and rf transmit the signals wirelessly. It can also be used in war fields and places where disaster has occurred. Human detection is also required in hazardous sectors like boilers, reactors where only authorized person can enter. The live body sensor in this project is a special type of sensor known as PIR sensor. It senses these passive infrared rays to detect the live human. Human identity is carried out using a Human live detection sensor. The PIR sensor is used to detect the motion in any kind and will inform to micro controller. In this project we are using RF based wireless system for the efficient communication.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCE

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS.

(Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT

OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Major-Project Work entitled

"MEMS BASED VOICE ALERT FOR DEAF AND DUMB" *is being submitted by following students during academic year 2022-2023 in practical fulfillment of the requirement for the award of the* ***B. Tech*** *Degree in* ELECTRONICS AND COMMUNICATION ENGINEERING *Specialization affiliated to JNTU, HYDERABAD.*

G. HARSHITHA	**(20T85A0403)**
G. RAMA KRISHNA REDDY	**(19T81A0430)**
N. PRASANNA	**(19T81A0426)**
G. KRISHNA MOHAN	**(19T81A0414)**

This record is a Bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/Guide ***coordinator sign*** ***HOD***

28/6/23

Major-Project Viva-Voce Exam Held on Dated

Internal Examiner *External Examiner*

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

ABSTRACT

Humans possess the voice capability for interaction and communication among each other. Unfortunately, not everybody has the capability of speaking and hearing. Sign language used among the community of people who cannot speak or hear as the means of communication. Sign language is a gesture representation that involves simultaneously combining hand shapes, orientation and movement of the hands, arms or body, and facial expressions to express fluently with a speaker's thoughts. The people who cannot speak makes use of the sign languages to communicate with other fellow vocally impaired person and even with other normal people who knows the meanings of sign languages or an interpreter is needed to translate the meanings of sign languages to other people who can speak and do not know the meanings of sign languages. However, it is not always possible for an individual to be around all the time to interpret the sign languages.

The main purpose of this paper is to confer the system that converts a given sign used by disabled person into its appropriate textual and audio form using components such as Arduino MEMS. which could be understand by a common person. The person holds the sensor and gives input with it as requirement he needs like water, food emergency and feeling sick etc.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512, TS.

(Approved by AICTE, New Delhi & Affiliated to JNTU , Hyderabad) College Code: T8

DEPRTMENT

OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is certify by Major Project Work entitled " VECHILE THEFT DETECTION AND TRACING SYSTEM " is being submitted by the following student during the academic year 2022-2023 in practical fulfillment for the award of the **B.Tech** Degree in ELECTRONICS AND COMMUNICATION ENGINEERING Specialization affiliated to JNTU,HYDERABAD.

G.ARCHANA	(19T81A0404)	A.VIKAS KUMAR	(19T81A0444)
J.SURESH	(19T81A0438)	M.VINDHYA SUBHASINI	(20T85A0408)

This record is a bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

Supervisor/guide **Coordinator Faculty** **HOD**

Major Project Viva-Voice Exam Held on Dated 28/06/2023

Internal Examiner

External examiner

PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

ABSTRACT

The crime rate is currently increasing significantly as a result of how frequent thefts have grown. In particular, these vehicles could suffer sizable losses in comparison to the money invested in them. There are many technologies available to handle this issue, including GPS, GSM, and GPRS systems. The vast majority of modern automobiles are equipped with GSM-based vehicle theft control systems, which prevent thefts even when the vehicles are parked in a parking area. In the modern world, people strive to live sophisticated lives with cutting-edge technologies and first-rate services. Using the mobile network, they can simply track the trucks. This essay provides an example of an automotive security system. We have GPS, a GSM network, and an embedded chip thanks to this technology. The efficient car security system is created for anti-theft using an embedded system with a GPS and a global system of mobile devices (GSM). GSM technology sends the user a text message each time a car is accessed. The client can utilize Google Earth to locate and contact vehicles through this system and converse with them. Via a GSM programme that was developed and installed on a mobile phone implanted in the vehicle, the theft alert function communicates with the car owner's mobile phone. The effectiveness of the system and whether it can be used to track vehicles as they are driven inside or outside of its jurisdiction may be evaluated based on the findings. The system can therefore be used as a database of cars that have been reported as missing, found, or recovered by various security agencies.

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, R. R. Dist., Hyderabad: 501 512,
TS. (Approved by AICTE, New Delhi & Affiliated to JNTU, Hyderabad) College Code: T8

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the MAJOR-Project Work entitled

"ADVANCED PARKING SLOT SYSTEM FOR VECHILES USING IOT" *is being submitted by following students during academic year 2022-2023 in partial fulfillment of the requirement for the award of the* ***B. Tech*** *Degree in* ELECTRONICS AND COMMUNICATION ENGINEERING
Specialization affiliated to JNTU, HYDERABAD.

VANGARA GOWTHAM ARYA	(19T81A0408)
GANJI MOUNIKA	(19T81A0418)
GADDIKOPPULA JAGADEESH KUMAR	(19T81A0409)
PRANYA KOTLA	(185T1A0424)

This record is a Bonafide work carried out by them under my guidance & supervision. The Result(s) embodied have not been submitted to any other University/Institution for the award of any Degree/Diploma.

HEAD OF THE DEPARTMENT
DEPT. OF ELECTRONICS & COMMUNICATION ENG
Annamacharya Institute of Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512.

Supervisor/Guide *coordinator sign* *HOD*

Major-Project Viva-Voce Exam Held on Dated 28/06/2023

Internal Examiner *External Examiner*

PRINCIPAL
Annamacharya Institute of Technology & Sciences
Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R. Dist. HYD-501 512

ABSTRACT

The crime rate is currently increasing significantly as a result of how frequent thefts have grown. In particular, these vehicles could suffer sizable losses in comparison to the money invested in them. There are many technologies available to handle this issue, including GPS, GSM, and GPRS systems. The vast majority of modern automobiles are equipped with GSM-based vehicle theft control systems, which prevent thefts even when the vehicles are parked in a parking area. In the modern world, people strive to live sophisticated lives with cutting-edge technologies and first-rate services. Using the mobile network, they can simply track the trucks. This essay provides an example of an automotive security system. We have GPS, a GSM network, and an embedded chip thanks to this technology. The efficient car security system is created for anti-theft using an embedded system with a GPS and a global system of mobile devices (GSM). GSM technology sends the user a text message each time a car is accessed. The client can utilize Google Earth to locate and contact vehicles through this system and converse with them. Via a GSM programme that was developed and installed on a mobile phone implanted in the vehicle, the theft alert function communicates with the car owner's mobile phone. The effectiveness of the system and whether it can be used to track vehicles as they are driven inside or outside of its jurisdiction may be evaluated based on the findings. The system can therefore be used as a database of cars that have been reported as missing, found, or recovered by various security agencies.