

DEPARTMENT OF INFORMATION TECHNOLOGY

VR SIDDHARTHA ENGINEERING COLLEGE

STUDENT INNOVATIVE PROJECTS

2019-20

S.NO	ROLL NO	NAME OF THE STUDENT	YEAR -SEC	IDEA TITLE	DESCRIPTION OF THE INNOVATION
1	188W1A1209	B Bhanu Sri Vaishnavi	II-A	Lost And Found	This device enables us to find our small things like wallet, spectacles, keys etc. every day. We humans forget our daily belongings every day. So the device we do will help you to find it easily. The device can be attached to any of our daily belongings like phone, spectacles, keys etc. that will be connected through our mobile or a physical button. The device alarms when we click the button physically or through our mobile connected to the device. It helps to find the lost things in close proximity. So it helps to find our things easily every day. The device can be connected through mobile hotspot or Wi-Fi. To develop a device which helps to find the lost stuff in our home attached to it.
	188W1A1231	M.K. Snigdha	II-A		
2	178W1A1246	R.V.Neel Kamal	III-A	Sign Language Interpreter	Deaf and dumb people use sign language for communication. This is not understood by general people; hence their interaction with others is limited. Hence we developed an application using Deep Learning to solve this issue
	178W1A1206	Ch.V.N. Koushik	III-A		
	178W1A1228	K.Dinesh Teja	III-A		
3	178W1A1261	A.Srikanth	III-B	Wireless Charging Car	The main aim of the project is to charge the electric vehicles when they were placed in a parking area or a specified area. If an electric vehicle needs to be charged whenever they required, but that may not be possible all the time. So, we implementing this project to charge that vehicles whenever they required. This were placed in restaurant, malls, hospitals parking places to charge by the time they complete their work.
	178W1A1286	I N N Krishna Sai	III-B		
4	178W1A1218	G.Gowri Nagh	III-A	Road Safety At Night	Roads became a dangerous place as many accidents are taking place every day. We cannot avoid few accidents. Many of the avoidable accidents occur at night time. This project provides solutions for these accidents.
	178W1A1241	P.Sri Varun	III-A		
	178W1A1205	Ch.Tarun	III-A		

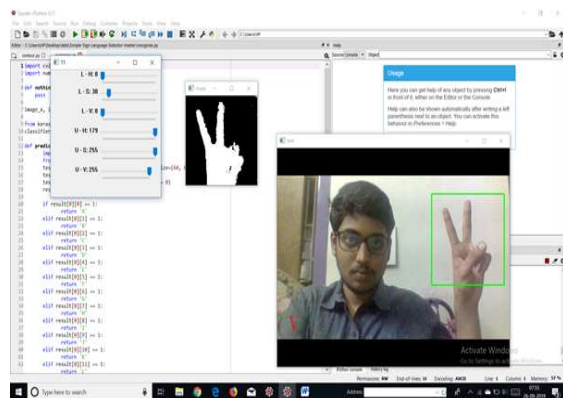
5	178W1A1212	D.Veda Sree	III-A	Smart Street Light System	This project is about Smart street light, street light will turn on while vehicle is passing through it. Here we are using 4 IR sensors that senses the position of the vehicle, each IR sensor controls 3 LED's. When vehicle passes by a particular IR sensor it senses the position of vehicle and gives its signal to the arduino board and it will turn on the LED's.
	178W1A1250	S.Harika	III-A		
6	178W1A1257	V.Triveni	III-A	Traffic Density Control and Ambulance Detection	Required components are mounted on PCB as per the component layout diagram 1 and soldered. Traffic lights model layout for a four junction road is drawn on the wooden board. 4 green and 4 red LEDs are mounted at the center on four sides. 8 IR LED's and 8 photo diodes are mounted on four sides of the road at different distances. LCD and transformer are also mounted on the board. Wire connections are done from the PCB to LCD, transformer, IR LEDs, photodiodes, Red and Green LED's. Program code is loaded into the Microcontroller (89c52).
	178W1A1245	R.Gowri Priyanka	III-A		
	178W1A1207	Ch.Swapna	III-A		
7	178W1A1264	Barma Divya Sri	III-B	Farm's Umbrella	Farmers depend on <i>rain</i> to nourish crops, but too much <i>rain</i> can actually <i>harm</i> crop production. <i>Rain</i> floods <i>fields</i> , washing away seeds and precious topsoil. Also, the <i>rain</i> is causing ditches, which is leaving gaping holes in the middle of <i>fields</i> . <i>Thus rainfall</i> is having a lot of negative <i>effect</i> on agriculture. In order to overcome this we are providing a model where an automatic roof arises on the field to protect it from bad effects of heavy rain. When the rain stops the roof automatically goes back.
	178W1A1298	Lekhya Sahithi Panchumarthi	III-B		
8	178W1A1287	J.Jyostna	III-B	Distance Measurement	This project is designed to develop distance measurement using ultrasonic waves and interfaced with arduino. Ultra sonic sensors are great tools to measure distance without actual contact and used at several place like water level measurement, object detection etc. Basic principle of ultrasonic distance measurement is based on ECHO. This is an effective way to measure small distances precisely. In this project, we used an ultrasonic sensor to determine the distance of an obstacle from the sensor. When sound waves are transmitted in environment then waves returned back to origin as ECHO after striking on the obstacle.
	178W1A1268	B.Jameema	III-B		
9	178W1A12B3	S.Sai Keerthana	III-B	Automatic Car Parking Using Arduino	The IR Sensor placed at the entrance detects the car and displays empty slots which are available to park the car and if the slots are filled, it displays slots are full.
	178W1A12A4	M.Teenu Sahasra	III-B		
10	178W1A1284	G.Sahithi	III-B	Gas Detector	While LPG is an essential need of every household, its leakage could lead to a disaster. To alert on LPG leakage and prevent any mis happening there are various products to detect the leakage. Here we have developed an Arduino based LPG gas detector alarm. If gas leakage occurs, this system detects it and makes an alert by buzzing the buzzer attached with the circuit.
	178W1A12A6	N.Anusha	III-B		

11	178W1A1278	Dollynithisha M	III-B	Smart Dustbin	The system consists of a PIR sensor in order to detect human motion and the lid of the bin is opened automatically using a servo motor without anyone needing to press its lever. An Ultrasonic sensor is placed on top of the garbage bin which will detect the total level of garbage inside it according to the total size of the bin. When the garbage will reach the maximum level, a pin will be sent to the municipalities,(This alert pin is sent to the municipal office using GSM module) and the bin gets locked until the employees take further actions to empty the bin. Once the dustbin is squashed, people can reuse the dustbin. This system will help in cleaning the city in a better way. All the sensors and GSM module are connected to Arduino and they are coded in Arduino programming.
	178W1A1291	K.Rikhita	III-B		
	188W1A1261	A.Sneha	II-B		
12	188W1A1215	Chinnni Nagasai Mudgala	II-A	The Serving Robot	The principle is to “SERVE FROM YOUR SEAT”. The model is a receiver - transmitter module serving robot that assists in serving. The robot is operated by having a glance of the environment the robot is from your screen. And is operated by giving your commands using the transmitter and receiver embedded in it receives your commands. The arduino processes your commands and finally the robot works accordingly.
	188W1A1203	Achanta Satya Deepika	II-A		
13	178W1A1221	K.Saketh	III-A	Smart Doorbell	Now-a-days both the parents in the house are working and because of this they leave their old parents or their children alone at home and if a single lady is living in a house, if someone comes and rings the doorbell they might feel insecure to open the door and the solution for this problem is “smart doorbell” which sends a picture to two persons of the family one through telegram and other through mail whether they are in or out of the house .
	178W1A1237	N.Dhruthi	III-A		
	178W1A1238	N.Raja Rajeswari	III-A		
14	178W1A1288	K.Rachana	III-B	Fire Fighter Robot	To rescue people and to put out the fire we are forced to use human resources which are not safe. With the advancement of technology especially in Robotics it is very much possible to replace humans with robots for fighting the fire .This would improve the efficiency of fire fighters and would also prevent them from risking human lives.
	178W1A1282	G.Aparna	III-B		
15	178W1A12B1	Sameera Tasneem	III-B	Home Controlling System Using Chabot	Home automation - controlling the fans, lights and other electrical appliances in a house using Internet of things is widely preferred in recent days. In this project, we proposed Google Assistant using by which the fans, lights and other electrical appliances can be controlled over the Internet. The messages sent using the chatbot is processed using Natural Language processing techniques. Secondly, any device connected to the local area network of the house can control the devices and other appliances in the house. Thirdly, the web application used to enable home automation also has a security feature that only enables certain users to access the application. And finally, it also has a functionality of sending an email alert when intruder is detected using motion sensors.
	178W1A12A1	Dharani.M	III-B		
17	178W1A12B9	Y.Alekya	III-B	Smart In	The main aim of the project is to develop a system which can automatically control break

	178W1A1297	K.Jhasni	III-B	Vehicle Transport System For road Users Safety	system of vehicle and accident avoidance using sensors. Whenever any obstacle is detected in running vehicle depends on distance automatically gives the driver an alert. The IR sensors continuously sends signals and monitors any car or other obstacles are in front of car. Many accidents at High-ways are taking place due to the close running of vehicles, all of sudden, if the in front vehicle driver reduces the speed or applied breaks, then it is quite difficult to the following vehicle driver to control his vehicle, resulting in accident.
	178W1A12A5	M.Preethi	III-B		
18	188W1A1288	M.Darahasa	II-B	Automated Parking System In Matlab	Computerized systems being an integral part of the current era, an automated parking system is one of its most commonly used applications. This automated parking system is designed to give access exclusively to vehicles. It takes the image of the vehicle and identifies its license number. It then checks with the database to determine its access. This report is a detailed description of the image processing techniques used for Automatic Number Plate Recognition.It deals with computer vision and the various techniques used in image processing. This system requires the vehicle to be physically present, so that security is not hampered with and access is denied to any vehicle that is not registered.
	188W1A1289	Md.Nayeema	II-B		
20	178W1A1251	P.Sravya Reddy	III-A	Smart Mirror	When we are standing in front of the mirror just switch on the power. The setup starts automatically and it displays weather report, date and time, our daily schedule and moreover it displays daily news on the mirror. Apart from that it also displays the comment lines to remind us lunch and dinner at respective time. Also we can customize the news by channels which we want to take a look. We can set our daily events on our mobile phone and it gets updated and displays the new events.
	178W1A1223	K.Lasya Sri	III-A		
21	188W1A1286	K.Sai Lakshmi	II-B	Smart Alarm For Deaf	The alarm wakes us up by producing sound but what about deaf people how they will listen to the alarm ring. Some people have dealt with this problem and have come up till vibrations(vibrating alarm clock),but vibrations have some harmful effects on body even if the degree of harm is less, vibrations are a bit harsh way of waking them up.
	188W1A1287	K.Sri Lakshmi	II-B		
22	188W1A12A9	T.Jahnavi Lakshmi	II-B	Online Vehicle Parking Slot Booking	The system uses sensor technology along with microcontroller and other electronics in order to behave like smart switching system which senses soil moisture level and irrigates the plant if necessary. Purpose of this work is to show how someone can easily make own and cheap automatic plant watering system in just few hours by connecting certain electronic components and other materials required. In our experiment.
	188W1A12B0	V.Anusha	II-B		

Some of the Photographs

SIGN LANGUAGE INTERPRETER



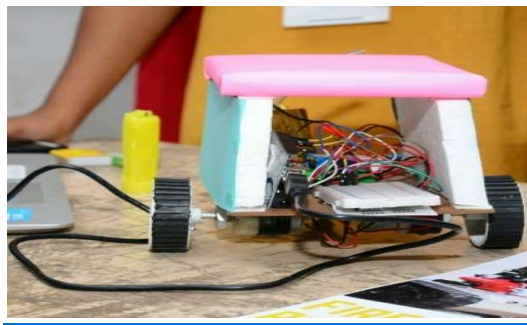
FARM'S UMBRELLA



SMART MIRROR



FIRE FIGHTER ROBO



SMART DOOR BELL



SMART DUSTBIN

