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A Report on Diploma Final Year Student Presentation, Electronics & Communication Department on 9th March 2012 at L.J.Polytechnic,Ahmedabad

As per the GTU Circular dated on 23rd February 2012 we have arranged presentation of final year students.

Presentation details are described below

No of Students : 86No of Groups : 27

• Industry Mentor : Mr. N.S.Jog

• Name of Industry : PRL, Ahmedabad

Director : Prof. Maheshkumar Kella
 Internal Project Coordinators : Ami Mistry & Vama Shah

Industry Mentor Introduction



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Mr. N.S.Jog worked in Physical Research Laboratory, Ahmedabad for 35 years in Astronomy Department. He developed various microcontroller and microprocessor based instruments which are presently used for observation in PRL laboratories of Nainital, Mount Abu and Hyderabad. He worked in Rocket payload which was launched at Thumbal, Tamil Nadu. He had published national level papers. He participated in many conferences which were held in various part of India.

Presentation Started with Mr N.S.Jog's Speech



• Students giving Presentation





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Group Details & Grades given by Industry Mentor

Team/	Student name	Title of	Grade
Group		IDP/UDP	
Identification			
no.			
	STAVAN A PANCHAL		
1	ANUP A RANPURA	WATER TANK LEVEL WORNINGUSING GSM SMS	B+
	AJAY M RABADIYA		
	DHAVAL H THAKKAR		
	EKTA K PATEL	8-ZONE HOME SECURITY	
2	AARTI H RATNU	SYSTEM	B+
	KINJAL M PATEL	JIJILIVI	

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3	HITESHA R KARELIA HEMANGINI R CHAUHAN	PROGRAMABAL TEMPRATURE SENSER &	А
	VIDHI K PATEL	CONTROLER	
4	SANGHARIYAT SALMA	- 8051 DEVLOPMENT BOARD	
	SIKHA J TIWARI		Δ.
	ASHWINI D MISAL		A
	RACHANA R GAJJAR		
	JINAL M PATEL	DDECCUDE AND	
5	DIXITA J PATEL	PRESSURE AND TEMPERATURE INDICATOR	B+
	AARTI V NANDANIYA	TEMPERATURE INDICATOR	
	NIRAG A SHAH		
6	KISHAN A PATEL	GENERATION OF PAL SIGNAL	B+
	SAGAR A TRIVEDI		
	NASIR SHAIKH K		
7	AKASH J PRAJAPATI	ACCESS CONTROL SYSTEM	Α
	RAYHAN MALIK I		
	BHARGAV R GADOYA	TEMPERATURE	
8	KRUPA M BHATT	CONTROLLER USING FAN A-	A+
	KAVAN K SHAH	REGULATER	
	ALPESHKUMAR K PASI	FORWARD – REVERSE TIMER	A
9	KIRANKUMAR D		
9	CHAUHAN		A
	PRATIK N MAKWANA		
	NIKUNJ K SUTARIYA	DWAA CENEDATOR LICING	
10	RAJ K PATEL	PWM GENERATOR USING 8051	B+
	ASHISH D SONIGARA	8031	
11	YUVRAJ B VAGHELA	RFID BASED ATTENDANCE SYSTEM	
	AKSHAR B SONI		B+
	SUNNY ANAND		DŦ
	RMISHRA		
12	DIPEN M PATEL	PARKING ZONE SYSTEM WITH AT89C51	
	VISHAL KALADHAR		Δ+
	HARVINDER RAJPUT		Δ'

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13 14 15	PRAKASH N KUMAVAT DHARMENDRASINGH SENGAR SHAILESH S CHAUHAN JANKI S VACHHANI HET M PATEL ANIL N CHAVDA DAVE NIKUNJ	CELLPHONE OPRETED LANDROVER BASED ON MICROCANROLLER PRODUCT COUNTING USING PROXY SENSOR SOLAR LANTERN SYSTEM	A A B
16	SHAH AALAP RAKESHBHAI PATEL DISHANT DASHARATHBHAI SEN NIRMAL MANUBHAI PATEL VIKAS	ULTRASONIC DISTANCE METER	B+
17	BHIKHABHAI RATHOD BRIJESH RAMANBHAI SONI KISHAN BHARATBHAI CHAUDHARI AJAY	TRAFFIC SIGNAL CONTROLLER	В
18	RAMABHAI CHAUHAN SANTOSHKUMAR PREMKUMAR PATEL DARSHAN BHIKHABHAI	AUTOMATIC RAILWAY GATE CONTROL SYSTEM	В
19	MANSURI SHEHZAD MOHD SHAKIR SHAIKH NAVEED MOHD NAZIR MOHD SHAIKH MUSEBAHMED ABDULHAMID	TEMPERATURE INDICATOR	A+

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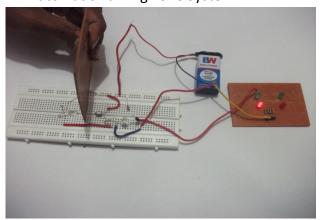
20	THAKKAR TUSHAR DIPAKKUMAR PUJARA RAJ VIJAYKUMAR PANCHAL RAJAT PRAVINKUMAR PATEL TUSHAR GANPATBHAI	AUTONOMOUS ROBOT	В
21	VYAS SHANDILYA KAMLESHKUMAR PATEL NIKUL RAMESHBHAI PANDYA DHVANIT HARNESHBHAI RAJPUT MANISH SINGH	GSM/GPS BASED VEHICLE AND PERSON TRACKING SYSTEM	A+
22	SHAH YAKSH PANKAJKUMAR DARJI MIHIR JITESHBHAI MAKWANA HITESHKUMAR KHUSHALBHAI	DIGITAL TIMER CONTROLLER	B+
23	TRIVEDI KARAN RAJESH LEO LOUIS FERNANDES SHELDON SANTAN	PATIENT MONITORING THROUGH GSM MODEM	А
24	THAKKAR DARSHIT GHANSHYAMBHAI SHAH VISMAY HITESHBHAI THAKAR DEVANG JAYESHBHAI SHAIKH MOHSIN YASINBHAI MEHTA ARJUN SAUMYABHAI	HOME APPLIANCES USING GSM	В

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25	PATEL MIHIR MAHENDRABHAI	TRAFFIC CONTROL USING PLC	B+
	PATEL MANTHAN PRAVINBHAI		
	MEHTA NIRMAL ASHWINBHAI		
26	MAVANI PRASHANT PATEL DARSHAN KISHORBHAI PATEL ROMIL JIGNESHBHAI	THYRISTOR HEATING CONTROL USING MICROCONTROLLER	B+
27	CHOKSI DHARMIK VRAJESHBHAI PATEL JANAK JAYANTIBHAI OZA RONAK CHETANBHAI	ROTATION COUNTER	А

Special Innovations

• Automatic Parking Zone System



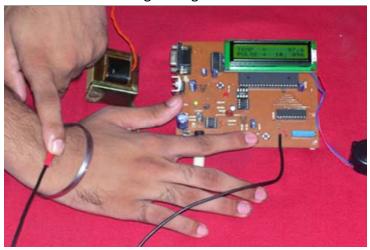
The parking zone system based on microcontroller is the control system for vehicle parking. It is used at industries, malls, theaters, hospitals and at many public places where the control on vehicle parking is most require. this system contain microcontroller AT89C51 , seven segment display , infrared sensor , stepper motor for the controlling purpose. Number of vehicles enters or come out from the parking zone are counted by up-down counter.In this system for the indication of no space for vehicle in the parking zone seven segment displays

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and LED's are used .when the parking zone is full according to the space of vehicle are provided by parking zone area then RED LED will be ON. GREEN LED indicates that parking zone is empty. When parking zone is full stepper motor rotates and gate will be close and it's open when the space for parking remains empty in the parking zone.

Advantage of this system is that there are no requirements of the security guard to guide the person to park the vehicle.

• Patient Monitoring through GSM Modem



The primary function of this system is to monitor the temperature and Heart Beat of the Patient. The Data collected by the sensors are sent to the Microcontroller. The Microcontroller transmits the received data over the air, using the GSM modem. From the transmitter the recordings are sent as an SMS to the care taker or the expert which have been given as the recipient. Not only does the microcontroller send information through the GSM module as SMS but also display the readings on the LCD

When the conditions go abnormal, the microcontroller senses those values and then alarms the people around by blowing the alarm and also by sending an urgency SMS. The functioning of Heart Beat device is based on the truth that the blood circulates for every heartbeat that can be sensed by using a circuit formed by the combination of a LDR and LED. Depending upon the rate of circulation of blood the heart beat rate per minute is calculated. This calculated value is communicated to the remote person through a GSM modem interfaced to it.

Report Edited by: Pinak K. Gajjar, Team GTU Innovation.

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