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| Obective | Seeking a challenging career that utilizes my skills in my area of competence and enriches my knowledge, and gives me a chance to be part of a team that  contributes towards the growth of the organization, thereby yielding the twin benefits of job satisfaction and convenient professional growth. |
| Summary | An Electronics and Communication Engineer with 1 year experience in Embedded Systems Development, an understanding of business objectives and a flair for engaging with clients to cater to their requirements. |
| Experience | **JUNIOR EMBEDDED ENGINEER, LAXMI INFOTEK**  **ERNAKULAM, KERALA , May­2012­ May­2013**  Responsible for handling customer enquiries on embedded system solutions. Worked as Guest Faculty in Project development (Embedded Systems and ATMEGA32)  ● KMEA engineering college, Aluva  ● Govt. Polytechnic College, Wayanad  ● Govt. Polytechnic College, Nedumangad  ● Women’s Polytechnic College, Kayamkulam  ● Musaliar College of Engineering, Pathanamthitta  ***Accomplishments***  **LIVE PROJECTS**  **Human Sensed Automatic Door**  Language: Embedded C  Tools/Device Used: ATMEGA 8, High Quality PIR Sensor  Description: This was a project implemented in Information Center, Periyar Tiger Reserve, Thekkady to automate the door with the help of a high quality PIR sensor. The hardware implementation including the door was designed by our team members.  **Token Display System with Voice for Hospitals and Banks**  Language: Embedded C  Tools/Device Used: ATMEGA 8, 8­inch Seven Segment, Speakers  Description: The project consists of a seven segment display box used to display token numbers and time which is controlled by a remote with RS­232 interface. In this project there are two user selectable two modes: TOKEN DISPLAY and REAL TIME DISPLAY. There is an option included for random token selection, increment |

or decrement the token numbers. This project allows the high quality voice announcement of token number stored in FAT32 file system memory card in any language.

**STUDENT PROJECTS**

***Projects accomplished in 89C51***

**Automatic Headlight Dimmer and Smoke Detector**

Language: Embedded C

Tools/Device used: KEIL, Proteus, Light Sensor, Relay, Smoke Sensor

Description: This project will helps the driver by automatically dimming the headlight of the vehicle depending on the amount of light coming in the opposite direction during night time thereby reducing the accidents. It also detects the presence of

any type of smoke inside the cabin of the vehicle.

**Wireless Noticeboard**

Language: Embedded C

Tools/Device used: KEIL, Proteus, GSM, Zigbee

Description: This project helps to reduce the manpower required in educational institutions. The principal or the concerned faculty in charge can create the notice in his/her room and can be published in the notice board fixed in the class room or faculty room either through zigbee or gsm.

***Projects accomplished in PIC16F877A***

**Auto Surveillance**

Language: Embedded C

Tools/Device used: MPLAB IDE, Proteus, Pir Sensor, DC Motor, MQ­2, TSOP, Wireless Camera

Description: This project deals with live human detection and poisonous gas detection. Pir sensor is used for human detection, MQ­2 for gas detection and TSOP for obstacle detection and robot will move accordingly. Also a wireless camera is provided for taking live videos of places where human cannot reach. DC motor is there for the easy movement of the robot.

**Dam Automation**

Language: Embedded C

Tools/Device used: MPLAB IDE, Proteus, Vibration Sensor, Motor, SIM 900A, RFID Reader, Water level Sensor

Description: This project helps the smooth functioning of a dam without much man power. The dam contains a vibration sensor (to measure the vibration) and water level sensor (for obtaining the water level in dam).The entry to the dam office is limited by RFID reader and also will send the water level to the concerned authorities on demand.

**Home Automation**

Language: Embedded C

Tools/Device used: MPLAB IDE, Proteus, PIR Sensor, Motor, SIM 900A, MQ­2, Buzzer, Light Sensor, LM35, IR sensor, Water level Sensor

Description: This project deals with a completely automated home. There are sensors for human detection, LM­35 a temperature sensor for the automatic working

of fan according to temperature, Light sensor to turn on/off the porch light according to the intensity of light, water level sensor in the water tank for automatic working of motor, gas sensor in case of gas leakage detection, GSM modem for sending message in case of security alert.

***Projects accomplished in ATMEGA32***

**Intelligent E­Informer**

Language: Embedded C

Tools/Device used: AVR Studio 5, Proteus, SIM 900A, Relay

Description: This projects deals with the automated electricity billing system. The electricity bill of a particular consumer will be send to his/her provided number on demand and also the line will be disconnected automatically by sending the message if he/she do not pay the bill within the time limit. Also the consumed unit won’t be lost even in the case of current failure.

**Vehicle Navigation Using GPS And GSM**

Language: Embedded C

Tools/Device used: AVR Studio 5, Proteus, SIM 900A, GPS, Vibration sensor, Temperature Sensor

Description: This project deals with locating the current position of user using a GPS and sends message to the authorized personals specifying their position in case of emergencies like fire, accident etc.

**Hand Talk**

Language: Embedded C

Tools/Device used: AVR Studio 5, Proteus, APR, Flex Sensor

Description: This project mainly aims the deaf and dumb. The APR which is a voice recording module will generate sound as we store in it. The flex sensor will produce different values for different positions. By fixing it in human hand and interfacing it with APR through microcontroller it will produce sound signals for different hand signals which were initially stored in it.

**ACADEMIC PROJECT**

**Mini Project: Wireless PC­PC Interconnection**

Language: C

Description: This project deals with cheap, faster and secure method of wireless communication between two PC’s RF.

**Main Project: Biped Robot (Rescue Robot)**

Language: Embedded C

Device used: MPLAB, PIR sensor, PIC16F877A, MQ­2, LM­35, Servomotors, Wireless Camera

Description: Our main project is a robot with two legs controlled by servomotors for their movement. The robot can go anywhere where human cannot reach. It contains several sensors for live human detection, poisonous gas detection, over temperature detection and camera for video capturing.

**Seminar: Radio Tomographic Imaging Using Wireless Network**

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| Education | **Advanced Diploma in Real Time Embedded System**  Institution : Cranes Varsity, Bangalore  June 2013 to December 2013  **Bachelor of Technology in Electronics and communication Engineering** Institution : Nehru College of Engineering and Research Centre, Thrissur University : Calicut University  Marks scored : 65% |
| Skills | ● Operating system: **Windows ,Ubuntu, Red Hat Linux**  ● Programming language: **C ,C++**  ● Embedded Boards & Microcontroller: **AT89C51, PIC, AVR, ARM(LPC2148)**  ● Proficient knowledge and hands on experience in **VxWorks, Shell**  **Scripting in UNIX , Kernel Programming, Embedded C**  ● Tools Used: **AutoCAD**, Proteus**, MP Lab, OrCAD, AVR studio** and **Keil software**.  ● Knowledge in communication protocols such as **SPI, UART, I2C, CAN** etc. |
| Personal Profile | Age : 23 years  Date of Birth : 12­Mar­1990  Nationality : Indian  Sex : Male  Marital Status : Single |