RESUME

Prasanna kumar Prabhakar Sangar

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CAREER OBJECTIVE:

- To establish myself as an **Embedded software & Hardware professional** to secure a challenging position in an organization where I can effectively contribute to my technical skills.

WORK EXPERIENCE

Current Organization – Knorr Bremse Technology Center India Pvt Ltd , Pune
Job Profile – Embedded Software Engineer
Roles and Responsibilities –
Coding in MISRA C , Working on MCAL, ECAL drivers , Protocols like CAN,UDS,UART,I2C,SPI, ADC

Last Organization – Versa Controls, Talegaon Dabhade, Pune
Job Profile - Junior Embedded Engineer in R & D Department
Job Responsibility-
Programming on 16-Bit, 32-Bit Microcontroller using C ,Embedded C
RS-232,UART,SPI,I2C etc, Coding in MISRA C
Reading output from ADC
Modification & improvement in existing firmware.
Test Setup Code Development for each and every product.
Hardware troubleshooting with the help of circuit Diagram.

Projects :
1. Small Hardware based product is developed
2. External EPROM interface with PIC microcontroller.

Two years experience in " Inditech Electrosystem Private Limited".as an "Embedded Engineer" in Embedded C programming with microcontrollers.
Testing and verification of Circuits and PCBs.
Prepared Bills of material for PCB.
Verified system communication using Oscilloscopes.
Wrote Product acceptance test procedures that communicated testing instructions to the manufacturing team.
Fault finding and solving in PCBs and circuits and final verification
Testing of PCBs, sensors, Relays, AC Drives

One years experience in Embedded software and Hardware of security panels and fire alarm systems panel in Advance Emergency systems Private Limited Goregaon,Mumbai

Technical Preview: -

Hardware Designing and Testing.

Project Name: - "Bluetooth based home security and home automation using ARM7".

Technologies: - Microprocessor LPC2148, bluetooth, RF, Gas Sensor, Keypad, LCD, Relay, motors.

Group Member: - 4

Duration: - 3- months

Description: There is an increasing demand for smart homes, where appliances react Automatically to changing environmental conditions and can be easily controlled through one common device. This project presents a possible solution whereby the user controls devices by using their existing mobile phone, where control is communicated to the Microcontroller from a mobile phone through its Bluetooth interface. The aim of this project is to design a circuit such that one can control home or industrial appliances using the help of bluetooth. Using bluetooth to control appliances reduces human efforts without compromising on efficiency. It also saves time. This circuit can be operated up to 5-10 meters depending upon the Bluetooth which we use.

Project Name: - "Water Level controller and Temperature monitoring using pic microcontroller".

Technologies: - Microcontroller PIC18F4550, Temperature sensor, Relay, LCD, motors.

Group Member: - 4

Duration: - 3- months

Description: Water Level Controller using PIC Microcontroller project will help in automatically controlling the water motor by sensing the water level in a tank. In this project explains how to detect and control the water level in an overhead tank or any other container. This system monitors the water level of the tank and automatically switches ON the motor whenever tank is empty. The motor is switched OFF when the overhead tank or container is FULL. Here, the water level of the tank is indicated on LCD (Liquid crystal Display). Using this system, we can avoid the overflow of the water. here we are designing the circuit which is used to detect and control the water level automatically in overhead tank using PIC microcontroller. In this system,

water sensing can be done by using a set of 4 wires, which are placed at different levels in tank. DC supply probe is placed at the base of the tank.

Name of the course	Name of Institute	Board	Duration	Year of Passing	Status
PG Diploma in Embedded System Design	BICARD, Pune	TCIL-IT, Delhi	6 Months	2018	Completed

ACADEMICS:- Branch: Electronics and Telecommunication

Standard	Board/University	Year	Percentage
B.E	Mumbai University	2015	57.30
H.S.C.	Higher Secondary	2011	70.00
S.S.C.	State Board	2009	86.15

TECHNICAL SKILLS:-

Operating Systems	Windows-xp/7/8/10, Linux-Ubuntu
Microcontroller	8051,PIC-18F4520,ARM7-LPC2148
Programming Languages	C,C++,Embedded C, Assembly Language, Shell Scripting, Data Structure Algorithm
Development Environment	Keil,MPLAB,Proteus, FreeRTOS
Protocols Known	I2C,SPI,RS-232,CAN

AREA OF INTEREST:

- To face the technical problems related to my work.
- To work on any technical problems.
- To learn new technical things.

PERSONAL DETAILS:

- **GENDER** **:** Male
- **DATE OF BIRTH** **:** 05/12/1991
- **ADDRESS** **:** A/P- Male Tel. Panhala, Dist. Kolhapur Pin Code-416114
- **LANGUAGES KNOWN** **:** Marathi, Hindi and English

DECLARATION:

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Date: / / **Yours Sincerely**

Place: **(Prasannakumar Sangar)**