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Satish Solanke

Embedded System Engineer, VIT University

Technical Skills

C ★★★★☆
Cortex uc ★★★★☆
RTOS ★★★★☆
DS ★★★☆☆
Linux ★★★☆☆
ASIC ★★★★☆
FPGA ★★★★☆

Personal Skills

Initiative | Curiosity
Team Player
Organize | Manage

Tools

Keil ★★★★★
Labview ★★★★☆
VirtualBox ★★★★★
VxWork ★★★★☆

Experience

08/17 - Now   **Embedded Firmware Engineer**   Broadcom(Amboseli HR,Contractor,Bangalore
Architect, design and development of embedded software and firmware for Bluetooth BR-EDR(BLE).

As production engineer handled APCF,LMP,HCI,pageoffload,DBFW block in ble architecture.

Low level driver development for hardware blocks and peripherals e.g. DMA,Memory,Memory protection, Timer.

Experience in communication and networking protocols - I2S.

Pre-silicon firmware development experience on FPGA platform.

Worked in all phases of product development life cycle - feasibility study,proof of concept, requirement analysis, estimation, planning, design, coding,testing, delivery and support.

Well knowledge in using Bluetooth sniffer and analyzing OTA log and Bluetool log.

Experience with embedded development tools,compiler, Makefile, ARM debugger

01/16 - 04/17 **Internship**   Energyly,Chennai
Design and Development of algorithm,Firmware and PCB Design for IoT-Based AC Energy saving product.
Working with it Involves :Firmware Development on Interfacing of the external SDCARD,NODMCU,RTC with the ATMEGA.
Strong practical knowledge in Bluetooth Protocol like HC-05Protocols like SPI,I2C.
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Education

2015 - 2017   **Master's Degree in Embedded systems Engineering**   VIT University
CGPA   7.41

2010 - 2014   **Bachelor's Degree in Electronic and Telecommunication**   Shivaji University
CGPA   7.08

Academic Projects

EEG Based Brain Controlled Robot
In this project MATLAB,EEG sensor,LPC1768 are used. Robot have been controlled by human brain waves (Concentration).

IOT Based Air Conditioning Analytics and Control System
The project talk about AC ENERGY SAVING without disturbing existing system.

Real Time Automotive Fire Protection Using CAN
In this project Keil5, MQ2, Ultrasonic sensor, Nuvoton Board are used.

Adaptive Front Light System
Here we are control headlight according to steering move.

Certifications

11/2015   **Best Paper Award.**   VIT University

Achievement and Extra Curriculum

•**Best paper award in VIT university in SET conference 3rd-4th Nov 2015**

• **Event Manager of c-programming contest**

• **Participate in Capgemini Tech Challenge 3.0**

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