Surya Prakash

Embedded Systems & IoT Developer|Pre-final Year B.Tech. Student

About

Surya Prakash
Dept. of Electronics &
Communication Engg.
The LNMIIT
Jaipur
India

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Programming Languages

Embedded C,
MATLAB, Assembly,
TEX,VHDL,Python,
Shell Scripting

Hardware

Microchip PIC, TIVA C
(TM4C123G),TI MSP
432,TI CC2650,
Arduino, RaspberryPi

Softwares

MikroC, Arduino IDE,
Code Composer
Studio, Fritzing, Keil,
Proteus, Processing

Online Courses

IoT Specialisation
|Coursera(Certified)
Real Time Bluetooth
Networks|EdX
(Ongoing)

Activities

Quizzing, Hackathons,
Tech Fest, MUNs,
Entrepreneurship Cell

Interests

Seeking an opportunity to work on building Smart Devices. Loves programming machines, hence working in embedded systems.
Currently working on Real Time Operating Systems, Bluetooth Low Energy and devices for Smart Power Grids. Also an avid Linux enthusiast.

Education

2014–Present	**Bachelor of Technology**	The LNM Institute of Information Technology	Jaipur

Electronics & Communication Engineering
Relevant Courses: Microprocessors, Embedded Systems, Internet of Things.
CGPA: 7.02

2013	**Board of Intermediate Education A.P.**	Vidyadham Junior College	Hyderabad

Senior Secondary Education | Percentage: 85.66%

2011	**CBSE AISSE**	Kendriya Vidyalaya 1	Bhubaneswar

Secondary Education | CGPA: 10/10

Experience

Jan '17	**Medical Equipment Consultancy**	Winter Internship

Gesture driven Operation Theatre Lights using PIC16F882 Microcontroller. Worked on *MikroC* and *Proteus*. Supervisor: Dr. Abhishek Sharma.

Jun-July '16	**LNMIIT Undergraduate Summer Internship Programme**	Summer Internship.

Developing TI RTOS applications and custom BLE profiles on TI CC2650 Sensortag. Supervisor: Dr. Santosh Shah.

Key Projects

- Non-Intrusive Load Monitoring in Smart Grids [Ongoing IoT Course Project]
  To Implement NILM algorithms for load desegregation. Mentor: Dr. Kumar Padmanabh.

- Personal Fitness Device [Ongoing]
  A BLE personal fitness device working on RTOS. Hardware used: TI MSP 432 launchpad, TI MK-II BoosterPack and TI CC2650 launchpad.

- Object Detection using SONAR based systems
  Worked with Arduino and Processing on building an object detection system. Refined the algorithm for better results. Supervisor: Dr. M. V. Deepak Nair. [Github][Report]

Minor Projects

Face Recogniser and naviGuide for the Blind @ HackDTU (20 hr Hackathon)
Visual Assistance Belt for the Blind [2nd position at LNMHacks(Hackathon) out of 45 teams]
Literature Survey on Ultra Low Power Microcontrollers for Mote Development
Others - Autonomous RC Car, Smart Window Screen, Circuit Simulator on MATLAB

References

Dr. Abhishek Sharma   Dr. M. V. Deepak Nair   Dr. Santosh Shah