

# C.V.Dheeraj kumar

EDM11B004

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## EDUCATION

Degree	Year	University/Board	CGPA/Percentage
Class X	2009	SSC	<b>88.87%</b>
Class XII (Higher Secondary)	2011	Intermidiate	<b>94.9 %</b>
B.Tech – Electronincs Design & Manufacturing	2015 (projected)	Indian Institute of Information Technology, Design & Manufacturing Kancheepuram	<b>8.15* / 10</b>

*\* CGPA after 7th Semester*

## Work Experience

- **Embedded shell** on ARM cortex-M3 based LPC1768 microcontroller  
Intern at RESEARCH CENTRE IMARAT, Hyderabad in summer 2013 (6 weeks).

## Areas of interest

- Digital logic design.
- Applied DSP.

## Software Skill Set

- Languages Known : professional in C.
- Worked With: NI MULTISIM Software, LabView, MATLAB, SPICE, Auto CAD, AVR Studio – BurnoMat, XILINX, Design Spark PCB, Cadence.

## Course Projects

- **Automatic number plate detection** - using Digital Image Processing by applying edge detection techniques and character recognition (**Final Year Project 2014**).
- **Intelligent attendance system** - using Aurdino Board, R-2R ladder circuit PCB as user card by which it is cheaper than biometric attendance and intelligent (2013).
- **Automatic street light controller** -Optimizing electrical energy waste on the streets (2012).

## Activities and Achievements

### Appliances for Blind (SHAASTRA CIRCUIT DESIGN COMPETITION 2014 - IITM)

(Finalist in the event)

- **Voice Controlled electronic switches:** Designed a system, which controls a minimum of 3 switches by taking voice as input. Used HM2007 processor for voice recognition.
- Electronically guided **walking stick for the blind:** Designed a walking stick based on obstacle detection system using ultrasonic sensors.
- **Automatic Window closing system:** Designed a window closing system that closes automatically every time it rains and during loud noises.

### Embedded systems and Robotics (ROBO TECH LABS PVT.LTD 2011)

- Build a **Line Follower and Mobile Controlled** (via DTMF) autonomous robots using Atmega 8 and Atmega 16 ICs. Has been awarded **1<sup>st</sup> prize** in robotics competition organized by them (team of 5).
- Participated in Image Processing Workshop conducted by Robo-tech labs (2012).

### Contraptions (SHAASTRA 2014 – IITM)

- Awarded **1<sup>st</sup> prize** in the event contraptions in which we need to show the inventions of three ages i.e early, medieval, modern.

## Position of Responsibilities

- General Arrangements co-ordinator for events conducted in the institute such as freshie night, hostel night, festivals etc., (2012 & 2013).
- Worked in Circuit Design Club co-ordinator, we teach the freshers about basic components, circuits in the Electronics field (2012).
- “FUN CLUB” co-ordinator – conducted events like treasure hunt, Funcastle, Detective day (2013).
- “Garden Secretary” in the hostel, responsible for the proper upkeep the hostel garden(s) (2014).

## Hobbies and Extracurricular Activities

- Playing cricket, table tennis.
- Designing posters by using photo-shop, picasa.

I here by declare that the above information provided is genuine to best my Knowledge.

**Name:** C.V Dheeraj Kumar

**Date:** 29/8/2014