NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI

KOWSHICK B

Male, Indian, 21 years
44/2, Bajanai Koil St,
Kannamapet, T.Nagar,
Chennai-17
b.kowshick@gmail.com

PERSONAL DETAILS

- Father's Name : B .Gangadhara Rao
- Date of Birth : 4th September 1991
- Languages Known : English, Tamil, Telugu

EDUCATION

B.Tech **Electrical and Electronics Engineering** **CGPA : 7.83**

Semester	I Nov '10	II May '11	III Nov '11	IV May '12	V Nov '12
GPA	8	8.5	7.62	7.42	7.65

Class XII (State Board of Tamilnadu)	2009	Sri Ahobilla Math Oriental Higher Secondary Higher Secondary School, Chennai	**91.5 %**
Class X (CBSE)	2007	Jawahar Vidyalaya Senior Secondary School Chennai	**93.8%**

ACADEMIC ACHIEVEMENTS AND CO-CURRICULAR ACTIVITIES

- **Tom Engibous** Award **Winner** of **TI India Analog Design contest** (2012-2013).
- **Winner** of autonomous robotics competition at **Pragyan**, NITT 2010 and 2011 international tech fest and various robotics contest conducted by other colleges.
- Organized and conducted two day **workshop** on embedded systems for **100** students in 2011.
- Organized and conducted six day **workshop** on MSP430 microcontrollers for **200** NITT students in 2012.
- Organized and conducted two day **workshop** on Verilog HDL and FPGA for non-NITT students during department symposium 2013.

SKILL SET

- Languages : C, C++, Verilog HDL.
- Packages : MATLAB, Code Composer Studio, ModelSim, AltiumDesigner

PROJECT WORK/ TRAINING

- **Winner of Texas Instruments Analog design contest (2012-2013)**
  Solar Power based Intelligent Battery Charging System Compatible with existing Home Inverters: (May'12-Jan'13)
  Designed and developed MPPT charge controller and a Power Flow Management system using embedded processor to manage the power flow between solar panels, the load and inverter battery thereby reducing the load demand from the Grid by proper switching strategy. (Mentor: Dr. Saravana Ilango)
- **Ethernet based industrial appliance automation using FPGA: (Dec'12 –Feb'13)**
  Worked on FPGA based Embedded System to control and monitor the appliances status in an industry from a remote location via the Ethernet communication based on TCP protocol. The communication is established using socket programming to configure a FPGA host board as Server and client. (Mentor: Dr. S.Moorthi)
- **Image Processing based Wireless Virtual Numpad using Embedded systems:**
  The objective of the project is to develop a system that can make any paper with numbers written on it be used as a numpad whose output number is displayed in an Embedded system design consisting of 16*2 LCD by establishing a wireless serial communication with PC which processes the numbers on the virtual numpad.
- **Internship at Indigo Quotient Labs, Bangalore (subsidiary of an MNC based in London):**
  Independently developed below products for an integrated zigbee based control Network using embedded systems: (May'12-July'12)
  Energy monitoring device:
  A real time energy consumption and measuring device using MSP430.
  Intelligent lighting systems:
  Automatically control lighting appliances based on human activity using PIR sensors and Light sensors.
  Infrared code receiver and transmitter:
  Developed a product which can receive and transmit appliance remote infrared codes using centrally connected MSP430, enabling control of any appliance from a remote location.

EXTRA-CURRICULAR ACTIVITIES

Positions of Responsibility:

- **General Secretary** of the institute during the year 2011-2012.
- **Head** of **SPIDER**, an electronics Research and Development club of NITT:

- Mentoring a team of 10 towards various competitions and in developing many assistive technologies.
  - **RFID** smart cane that can guide the blind by identifying the objects with the help of RFID tags.
- Conducted various **'Tech Talks'** -a short lecture to all students on technical aspects of our projects.

Sports and cultural activities:

- Participated in NSS (National Social Service) Camp to the nearby villages.
- Kho-Kho school team player during the year 2006.

e-mail id : b.kowshick@gmail.com
Phone:9710269166