ROHIT BARUPAL **100070014**
Electrical Engineering **UG Third Year (B.Tech.)**
Indian Institute of Technology, Bombay **Male**
Specialization: none **DOB: 25/08/92**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.29
Intermediate/+2	RBSE	Holy Spirit Sen. Sec. School, Jodhpur	2009	86.67
Matriculation	RBSE	Govt. Sen. Sec. School,Samdari, Barmer	2007	82.17

- **ACADEMIC ACHIEVEMENTS**
  - Secured All India Rank 46(SC) in IIT JEE 2010
  - Secured 4th (SC) rank in RPET exam (Rajasthan) at state level
  - Scored 90.88 % in PCM in 12th class state board
  - Participated in the workshop of Six weekends on Intellectual Property Rights (IPR) fundamentals organised by IPR cell, IIT Bombay
  - Selected in National Defence Academy (NDA) for interview in Dehradun

- **PROJECTS**
  - **Microcontroller Board** Summer 2012
    Guide: Prof. M.B Patil
    Implemented USB programmable Microcontroller broad using Atmel 89c5132 chip

  - **Car Race Game** Spring 12
    Guide: Prof. M. B. Patil and Prof. Joseph John
    Developed a car race game similar to that in smart phones using LCD as the display interface and De0 Nano G Sensor as the Remote Control.
    Logic was developed using Verilog Code on Altera Quartus, input to the game was through G Sensor and inputs to LCD were interfaced through the Deo Nano FPGA Board

  - **Optical Data Transmission** Mar '12
    Guide: Prof. Anil Kottantharayil [Mini Project-Analog Lab]
    Made a pulsed IR transmitter using an IR photodiode pulsing a frequency of 50KHz, and a receiver, with a filter which let in only the radiations in the 50KHz frequency range, in the IR region.

  - **OPAMP Design** Apr '12
    Guide: Prof. Anil Kottantharayil [Mini Project-Analog Lab]
    Made the design of a _ve stage opamp with given specifications, simulated the design on LT spice to confirm the validity of the design and then implemented the circuit on breadboard.

  - **Device Opening** Mar '11
    Guide: Prof. J. Vasi
    Term paper on Optical Mouse 'Introduction to Electronics' Course project
    Mouse was opened and its working and various component PCB and IC were studied

- **Pocket Tanks**
  Developed C++ code for 'Pocket Tanks''game in a 12 member team for Çomputer Programming and Utilization' course project Autumn 2010
  EzWindows API was used for developing Graphical User Interface and various new weapons

- **F1 car** Aug '10
  Built a Remote Controlled Car with the help of basic RF circuit as a part of 4-membered team

- **CO CURRICULAR ACHIEVEMENTS**
  - Participated in Inter Hostel, Dance competition 'Freshiza' and 'stand **1st** position in the group of 15 students
  - Was in **National Cadet Corps** (NCC) with Junior Underarm Officer Rank.
    Got 'B' certificate and Lead 45 student
  - Had experience of **Riffle** shooting
  - Coordinator for Exhibitions Department, **Techfest** 2011

- **PROGRAMMING SKILLS**
  - Programming Language : C/C++ ,Assembly languag , verilog
  - Microcontrollers: Atmel 8051,Intel 8085
  - Programming Board: Altera FPGA Deo nano
  - Simulator: Keil uvision, iverilog, Lab view

- **COURSES UNDERTAKEN** by April 2013

  - **Department Courses**

Electronic Machines and Power Electronics	Probability and Random process
Electronic Devices and Circuits	Digital Communications
Communication Systems	Digital Signal processing
ElectroMegnetic Waves	Microprocessors
Signal and Systems	Network Theory
Analog Circuits	Control systems
Digital Systems	Power Systems

  - **Additional Learning Course**
    Foundation of VLSI cad

  - **Other Courses**

Computer Programming and Utilization	Ordinary and Partial Differential Equations
Electricity and Magnetism	Engineering Graphics and Drawing
Linear Algebra	Complex Analysis
Chemistry	Calculus