



**Soni Rahul Jagdish**  
**Electrical Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: Microelectronics**

**10D070005**  
**UG Third Year(Dual Degree )**  
**Male**  
**DOB: 10-08-1991**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2013	6.47
Intermediate/+2	C.B.S.E	Modi Public School	2009	74.40
Matriculation	S.S.C	O.L.V High School	2007	83.23

## SUMMER INTERNSHIP

- **Public Relation Manager - Edfora “ Education for all ”** *May'12 – July'12*
  - Contributed as an evangelist for spreading secondary education to poor by proposing strategies to stakeholders for drawing in the renowned teachers of Mumbai.
  - Relayed mutual benefits and perspectives to HODs of many coaching classes and schools by empowering the vision of a Networking site for education community

## PROJECTS

- **Efficiency improvement of LED lightning**  
*Guide: Prof. Swaroop Ganguly* *Dec'11 - Present*
  - Applying concepts of quantum mechanics in semiconductor devices to improve the efficiency of radiative re-combination by adding quantum well in between the junction.
  - Stimulated new designs to decrease the absorption phenomena to increase luminescence.
- **Implementation of hardware & software of Tetris game**  
*Guide: Prof. M.B. Patil,* *Feb'12 - March'12*
  - Built Tetris block game using a DE0 Nano FPGA board, LED grid and some external digital circuitry
  - Designed an efficient digital circuitry, and optimized Verilog based coding using Altera Quartus.
- **Design of basic analog Operational Amplifier.**  
*Guide: Prof. V.Ramogopal Rao* *Jan'12 - April'12*
  - Designed Operational Amplifier for required gain, input and output resistance.
  - Simulated the design using LT-Spice and practically verified the circuit in Lab using LN741.
- **Graph Plotter using C++**  
*Guide: Prof. D.B.Phatak* *Sept'10 – Nov'10*
  - Crafted Graph Plotter software using C++, where the Graphical Interference was developed using Ez-Window.
  - It could plot various mathematical functions as well as their composites and perform operations like differentiation, integration, finding roots etc

## POSITION OF RESPONSIBILITY

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- **Internship Coordinator, Placement Cell I.I.T Bombay** *July'12 - Present*
  - Procuring internship opportunities for the students of I.I.T Bombay.
  - Coordinating with companies and university.
- **Core Group Member, Alumina Student Mentorship Program ( ASMP)** *Aug'11 – April'12*
  - Introduced a new improved procedure for allotment of students and mentors which facilitated better interaction among students and their mentor.
  - Successfully organized the Student Alumni Meet for the first time, as a platform for student and alumni networking.
  - Improved the foundation of program by adding professionalism to it.
- **Techfest Media & Marketing Coordinator** *Aug'11 – Feb'12*
  - Headed a team of more than 20 organizers to reach through various forms of Media and coordinate with the sponsors.
  - Contacted reporters of leading newspaper and news channel in India
  - Helped in organizing “Ummed-e-Milaap” a social initiative to unite students of India and Pakistan.

## COMPUTER SKILLS

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- Programming languages: C/C++, HTML, and Arduino (Microcontroller).
- Hardware Description Language : Verilog , Keil
- OS : Windows XP/7, Ubuntu
- Electronics : LTSpice, Eagle(PCB Design)
- Tools : Scilab , Matlab

## EXTRA CURRICULAR ACTIVITIES

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- Made a remote controlled car with **differential turning** using a simple radio frequency circuit.
- Mentored sophomore team in ITSP (Institute Technical Summer Project).
- Table Tennis player certified by National Sports Organization in the year 2010-2011.
- Avidly interested in Trekking and Adventure Sports.
- Part of the team for the Performing Arts Festival (PAF), 2011, the largest Inter Hostel Cultural Festival of I.I.T Bombay.