



Sneha Dilip Goenka
Electrical Engineering
Indian Institute of Technology Bombay
Specialization: Microelectronics

12D070028
UG Second Year
Female
DOB: 26/07/1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	8.97
Intermediate/+2	CBSE	Shiv Jyoti Senior Secondary School	2012	93.80
Matriculation	ICSE	Bombay Scottish School	2010	95.70

ACADEMIC ACHIEVEMENTS

- Secured **All India Rank 301** in IIT-JEE [12]
- Secured **3rd position** in school in Class 12 board examination [12]
- Gold medalist** for 1st position in school Class 10 ICSE [10]
- Pursuing **Minor Degree in Statistics** in the Mathematics Department, IIT Bombay
- Secured an **AP grade** (awarded to 10 students in a batch strength 445 students) in the **CS 101** course in the first year at IIT Bombay

AWARDS

- School Gold Medalist** at the **10th and 11th National Science Olympiad** by the Science Olympiad Foundation
- Awarded **Certificate of Merit** at the **Green Olympiad** conducted by the Ministry of Environment and Forest and Dr. Homi Bhabha Balvaidyanik Examination [09]

PROJECTS AND WORK-EXPERIENCE

Pratham, IIT Bombay 1st Student Satellite Project [May '13 - Present]

- Working on **Electrical** and **On-Board Computing(OBC)** subsystem in a seven-member team
- Currently working on **OILS (On-Board In Loop Simulation)** facility (based on MATLAB xPC-target environment) to test the actual functioning of flight hardware
- Tested the implementation of the communication protocols of the OBC

Advitiya, Second Student Satellite of IIT Bombay [Jul '13 - Present]

- Co-Founder** and member of the **designing phase** of the Power subsystem

Institute Technical Summer Project 2013 on ' Mimicking Hand Gestures' [Jun '13]

- Simulating the finger movements with the help of potentiometers.
- Developed mechanical input system through various designs, circuit designing and use of Arduino, coding for the simulation in Processing software

Indoor Tracking System Prototype Development [Dec '12]

- Under Design Exploration Workshop (DEW) led by Prof. C. Amarnath with a 5 student team
- Coded the algorithm for the **best fit curve** and debugging of the overall code
- Conceptualized an indoor tracking system using MATLAB with the use of Wi-Fi signals, triangulation concepts to replicate a basic GPS model and Android App to measure the signal

'E-Waste Scenario in the Institute'

[Oct '12]

- Worked as a part of **National Service Scheme** (NSS) and Techfest Green Campus Challenge
- **Preliminary analysis** of E-waste, procurement of data related to quantities of waste generated and possible solutions

POSITIONS OF RESPONSIBILITY

Manager for Lecture Series for the Student Group Samwad

[Jan- Mar '12]

- It is a forum that deals with the various issues existing in the society
- It included contacting the speakers as well as organizing the event
 - 'Perspective and Methodology behind the show, Satyamev Jayate' by Mrs.Svati Bhatkal, Co-director and Research Head of Satyamev Jayate
 - Interactive session with Dr.Madhav Chavan,CEO of the NGO Pratham
 - 'Science, Democracy and Ecology in India' talk by the Padma Shri awardee, Prof.Madhav Gadgil, the Indian ecologist

Volunteer at National Service Scheme (NSS)

[Jul '13 - Present]

- **Mentor** to freshmen under the department of Social Involvement Programme which aims at giving the students an experience of working at the grassroots level

School House Captain (Bombay Scottish School)

[`09-`10]

- Responsible for students of 1 of the 4 houses across classes 1 to 10
- Won the Inter-House Overall trophy at the end of the year

CO-CURRICULAR ACTIVITIES

Dance

- **Masters of Dance in Bharat Natyam** from the Art Society, Mumbai
- Completed **Arangetram, the debut on-stage performance** in 2006 after 4 years of training

Linguistics

- **Chinese (Mandarin)** - Certified by the Beijing Jiatong University for successfully completing 100 hours of the combines Basic and Advanced course [`12 - `13]
- **Spanish (Basic)** - Part of the Summer School of Cult conducted by the Academic and Cultural Councils of IIT Bombay [Jun '13]

Miscellaneous

- Won Elocution (Hindi) and PowerPoint Presentation Competitions at the school Level
- Member of the winning team at the Inter-House throwball competition

COMPUTER SKILLS

Languages: C, C++, Java

Softwares: Scilab, Processing, MS-Office