



**NISHANT SINGH**  
**Electrical Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: Communication & Signal Processing**

**09D07041**  
**UG Third Year(Dual Degree )**  
**Male**  
**DOB: 17/08/1991**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	6.90
Intermediate/+2	AISSE 2009	ST.JOSEPH SR. SEC. SCHOOL	2009	83.60
Matriculation	AISSE 2007	ST.JOSEPH SR. SEC. SCHOOL	2007	87.80

#### Educational qualification:

- Obtained All India Rank ,1455 ,In Jee 2009 ,placed amongst the top 3% all India.
- Was placed amongst the top 0.4 % in the AIEEE exam 2009.
- Cleared Indian Statistical institute exam,2009. Was called for an interview for the 2<sup>nd</sup> phase.

#### Courses undertaken:

- Motion planning and coordination of Autonomous vehicles
- Microprocessors
- Communication Systems
- Network theory
- Analog Circuits
- Digital Systems
- Electromagnetic Waves
- Astrophysics
- Data Interpretation And analysis

#### Cyber Knowledge:

- Verilog programming (HDLs)
- Assembly languages For microprocessors (8085)
- C++,Python
- JAVASCRIPT, PHP, MYSQL, HTML, XML.
- Worked on Content Management Systems like Pyramid
- Solid Works, MATLAB

#### Projects Undertaken:

- Currently working on a project on **Robotics and algorithm design** for mapping and motion. Work constitutes the development of *algorithms for robot motions and sensors and testing them on the simulation grounds* ,under the guidance of **Prof Leena Vachhani ,SYSCON group ,IIT BOMBAY.**
- Member Of **Formula student Electric team**, IIT BOMBAY ,2012 To be held in **Silverstone ,UK.** Working on the **Motor Controls and Power Train.**

- Worked in an Intern at the **Inzaak Solutions**, A Startup by IIT Alumni, during the Summer 2011. Worked on the Web Development and the **Android** based “**Hand Writing Recognition**” software for Cell phones and other gadgets.
- Worked on a project on “**Resistance RAM**” development, under the supervision of **Prof Udayan Ganguly**, Electrical department ,IIT Bombay. Work constituted the Electrical testing of micro – sized Semi-conductor devices, with highly Sophisticated Devices like **Agilent HP4155** analyzer and **Keithley Switching matrices**.  
Coding the machine in C++.
- **C++ programming ,CS 101** ,project under **Chair Prof. Deepak S Phatak** on the Unique Identification System implementation.

#### Co-curricular Activities:

- Sports:  
Interest in football and athletics .Was honored as the **SPORTSMAN** of the year in school,2008.Also represented School being team member in the Inter-School football competition team.
- Received **B-Certificate** of **National Cadet Corps (NCC)** in year 2010. Was ranked as the Sergeant.
- Position Of Responsibility:
  - Member of team conducting **ELIXER**,an event at the Technical Fest of IIT Bombay ,held in January 2011.
  - Member in Electrical Team in the **Formula Student Electric** Team. Responsibility for the power train and the motor control.
- Other Technical Interests:
  - Interest in Astronomy and theoretical physics.
  - Love reading books on Mathematical Foundations .
  - Built up Led flasher in the class 12 physics project.
  - Avid interest in Robotics and algorithm developing. Also have taken up courses on autonomous vehicle design.

**I hereby declare that all the above mentioned points are true to best of my knowledge-**

**Nishant Singh**