

Rohit Nijhawan Aerospace Engineering Indian Institute of Technology, Bombay 100010028 UG Second Year Male

DOB: 25-02-1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.09
Intermediate/+2	CBSE	Blue Bells Model School, Gurgaon	2009	91.60
Matriculation	CBSE	Army School, Ahmednagar	2007	94.40

SCHOLASTIC ACHIEVEMENTS

- Secured the 1306th position (percentile: 99.71) in IIT JEE 2010(out of more than 4 lac students), the entrance examinations to the Indian Institutes of Technology.
- Was offered a scholarship of Rs. 25,000 per year for a period of 4 years for having been placed in the top 500 (ranked 272, percentile: 99.97) out of a total of more than 9 lac students who gave the All India Engineering Entrance Examination-2009.
- Scholarship holder under the prestigious National Talent Search Examination scheme, the most prestigious school level scholarship, awarded by the MHRD, Government of India
- Awarded a certificate of merit for having performed at par with the **top 0.1%** candidates in **Mathematics and Social Science** by the **Central Board of Secondary Education**.
- Secured 1st rank in academics in school continuously for ten years (class 1-10).

SOFTWARE SKILLS

- Operating systems : Windows and UNIX
- **Programming languages**: C, C++, Java, FORTRAN.
- Software packages : MATLAB, LT Spice, Latex, Eagle
- Photo and video editing: Open CV(Image processing), Adobe Photoshop, Sony Vegas, Adobe Premiere Pro.
- Web development : HTML and CSS.

PROJECTS UNDERTAKEN:

Missile Guidance (Guide: Prof. H.B. Hablani, IIT Bombay)

2011

Summer project

Simulated and studied the **launch**, **further advance and guidance of missiles** as part of an **intern under Prof. H.B. Hablani**, Department of Aerospace Engineering, IIT Bombay.

Radio-controlled Hovercraft

2011

Summer Project

As an **Electronics Club Summer Project (ECSP 2011), IIT Bombay,** built an RC Hovercraft from scratch in a team of 4.

Grading System with secured access (Guide: Prof. Rushikesh Joshi, IIT Bombay) 2011 Course Project, Computer Science Programming and Utilization

In a team of 2, developed a C++ based password-protected grading system with access only to a limited number of faculty members.

Micro Aerial Vehicle: Tricopter (Guide: Prof. K. P. Karunakaran, IIT Bombay) 2011-present

- Pursuing a project on the **design** of a **remote controlled micro aerial vehicle**: **tricopter**, a copter that has 3 rotors.
- Later in the project, it can be moved to a specific place with the help of GUI software linked with the copter using Zig-bee modules and using a mounted camera can transmit live video to a computer

Universal Time-keeping and Dissemination System (Guide: Prof. K. Sudhakar, IIT Bombay)

2011-present

Course Project, Introduction to Engineering Design

Worked on an engineering design project to synchronize the time on all the clocks on the campus with the Indian Standard Time(IST).

TECHNICAL EVENTS

Aerobotics, Shaastra 2011

2011

2011

Aeromodelling cum robotics event of the annual technical festival of IIT Madras

• Developed a **hovercraft** that could be operated both manually using radio-control and autonomously to follow a given-coloured wall as part of the problem statement.

Zephyr 2011 2011

Annual Departmental Technical Festival, Aerospace Department, IIT Bombay

- Built a **radio-controlled plane** and participated in **Mach Infinity**, a competition based on remote-controlled plane design and flight-manoeuvring skills
- Built a water-propelled rocket and participated in the Water-rocketry competition.

Trackmania 2010

Competition based on radio-controlled car designing and manoeuvring skills

- In a team of 4, built a **radio-controlled car** and clocked the **third best time** out of a total of around **150 teams.**
- Subsequently, **autonomous** control was integrated in the bot and was made into a **line-follower** using **IR sensors**.

POSITIONS OF RESPONSIBILITY

•	Convener for Aeromodelling Club, IIT Bombay	2011-present
	Coordinate all the activities of the club including flying sessions, competitions	
	and lectures.	
•	Organiser for Mood Indigo 2010(Asia's Biggest Cultural Festival) and	2010-present
	Coordinator for Mood Indigo 2011	•
	Worked in the 'Creatives' department and now in the 'Pronites' department	

• Organiser for Techfest 2011(Asia's Biggest College Technical Festival) and Coordinator for Techfest 2012

Worked in the 'Web and Publicity' department and now in the 'Technoholix' department

• Coordinator for Entrepreneurship Cell, IIT Bombay
Coordinate the media and marketing activities of E-Cell

Tech-mentor, TechOne *Mentored a group of 22 freshmen into making a remote-controlled car for an intra-college car-racing competition*

EXTRA-CURRICULAR ACTIVITIES AND ACCOMPLISHMENTS

- Part of the editorial team of Insight, the official student media body and newsletter of IIT Bombay.
- Part of the editorial team of Enspace, the entrepreneurial magazine of IIT Bombay.
- Member of UDAAN, a social outreach programme of the Aerospace Engineering Department, IIT Bombay.
- Secured the first position in the video-making cum editing competition of Freshiezza, the Inter-Hostel Freshmen Cultural Festival.
- Undertook the **NSO** course in **Yoga** in the first year.
- Have an avid interest in cricket, reading and hobby electronics(currently pursuing a **minor course** in the **Electrical Engineering**).