



**Pritesh Shrivastava**  
**Civil Engineering**  
**Indian Institute of Technology, Bombay**

**09004002**  
**B.Tech.**  
**Male**  
**DOB: 23 Dec 1990**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.92

### INTERNSHIPS & PROJECTS

**Transoft International** FLUIDYN SOFTWARE AND CONSULTANCY, BANGALORE [May'12- Jul'12]

*Computed airflow patterns using 3D Computational Fluid Dynamics (CFD) Approach*

- Ventilation : **18% to 4%** minimization of errors for flow through a multi cone diffuser
- Contaminant Tracking : Achieved accuracy upto **99%** in the transient and steady state analysis of the concentration of a contaminant in semi confined space

*Software Development : Coupling of Energy simulations with the CFD program*

- Developed boundary conditions to solve the transient heat conduction equation

**Automated Surgical Suturing Device** COLLABORATIVE ENGINEERING, IIT BOMBAY [Jan'12-Apr'12]

*Conceptualized a medical device for automated suturing in Minimal Invasive Surgery applications*

- Pioneered the integration of the suturing device with a robotic arm for tele-operation
- Product was highly appreciated by surgeons of Hinduja, Lilawati and Hiranandani Hospitals
- Published in the national journal "Medical Equipment and Automation"

**Maruti Suzuki India Ltd** PRODUCTION DEPARTMENT, GURGAON [May'11- Jun'11]

*Quality Control and Assembly Line Management*

- Defined key parameters for calculating lead times and repair costs in Assembly and Inspection lines
- Developed model for the Quality Gate software to check for compliance and manage the defected parts

### IIT BOMBAY RACING

**Publicity & Creative Head** [2012 – Present]

*Spearheading a 2 tier team of 10 members dedicated to planning and directing sponsorship and promotion programs of the electric racing car Evo 2.0 for Formula Student 2013*

- Founder, Creative Team – Pioneered collaboration with Industrial Design Centre, IITB to develop designs for the Concept Car, bodywork and pit layout
- **Editor, PitStop** - Revamped Pitstop from an annual newsletter to a bimonthly auto racing magazine
- Launched Revolutions, an online forum to promote discussions and collaboration between Indian and international Formula Student teams

**Design Engineer** [2011-12]

*Overhauled the chassis subsystem of **India's first electric** racing car, for Formula Student UK 2012 event*

- Designed the cell assembly and packaging of battery, sensors and related components for the electric car
- Simulated and devised cooling solutions to prevent battery failure
- Optimized the design of the chassis for enhanced driver controls, ergonomics and safety

### POSITIONS OF RESPONSIBILITY

**Web Manager** RADIANCE 2011 [2010-11]

*Annual Technical Festival of Mechanical Engineering Department, IIT Bombay*

- Coordinated with 12 Core Team Members to host the fest which involved more than 1500 technocrats
- Independently designed the website for Radiance and organized online events like Brainvita

**Institute Student Mentor** [2011-13]

- Amongst the **only 8** students nominated from a batch of ~ 800 students in the third year on the basis of peer recommendation and overall personal achievements
- Guided 21 freshmen students over the past **2 years** in their academic and co-curricular endeavours

**Department Academic Mentor** [2011-13]

- Mentored 5 academically underperforming 2<sup>nd</sup> year students via one-to-one counselling
- Launched Course-Wiki with a 7 member team; developed and organized course content for UG courses

**Council Member** MECHANICAL ENGINEERING ASSOCIATION (MEA), IIT BOMBAY [2010-11]

- Revamped the MEA website and organized various intra-departmental activities

### SCHOLASTIC DISTINCTIONS

- Recipient of Institute **Academic Excellence** Award for exemplary performance in the 1<sup>st</sup> year [2010]
- Ranked **17<sup>th</sup>** in State in AIEEE and awarded CBSE Merit Scholarship for the same [since 2009]
- Qualified into nation's **top 30** for the Indian National Mathematics Olympiad [2008]
- Awarded Merit Certificate by CBSE for being among **top 0.1 %** in Mathematics in Class X [2007]

