



**Prakash Chouhan**  
**Aerospace Engineering**  
**Indian Institute of Technology, Bombay**

**09001016**  
**UG Third Year (B.Tech.)**  
**Male**  
**DOB: 30-03-1991**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	7.00
Intermediate/+2	Rajasthan State Board	Sir Pratap Senior Secondary School	2008	82.62
Matriculation	Rajasthan State Board	Shiv Bal Nikunj Secondary School	2006	87.00

### **Winter Internship (December 2011)**

#### **National Aerospace Laboratory, Bangalore**

- **Nowcasting Wind**
- **Division:** CSMST **Guide:** Manabendra Manindrakumar De
- Study of Weather Prediction Model 'Varsha' General Circulation Model(GCM) launched by NAL,Bangalore
- Coding and Analysis for calculating Total Energy output for 2 months generated from two different wind turbines(Suzlon-82 and NEPC-Micon) at two different locations from India
- Comparison of result with actual data given in WindPro
- Conclusions and possible factors affecting results

#### **Academic Projects/Presentations**

- **Design a better security system in IIT Bombay (Autumn 2010)**
  - Guide: Prof. Hemendra Arya , Prof.PM Mujumdar , Prof. Krishna Rao Sudhakar
  - Studied concepts of Need Statement, Stakeholders, Concept Generation, Quality Function Deployment, and Concept Selection
  - Made a presentation on methods to improve current security system in case of an emergency or terrorist attack
- **Project on the application of fingerprint recognition by implementing a C++ code in given Hardware (Autumn 2009)**
  - Guide: Prof. Deepak B. Phatak
  - Studied Duplicate Detection for fingerprints through C++ code
- **Modeling and Simulation Lab Project (Spring 2011)**
  - Short Report on Non Linear Partial Differential Equation Based Automobile Suspension System
- **Controls System Laboratory Project (Autumn 2011)**
  - Designed a Controller to meet given specific requirements for Thermal Control Process CE103
- **Presentations (Spring 2010)**
  - Space Debris
  - Daniel Bernoulli

#### **Scholastic Achievements**

- Secured 1<sup>st</sup> rank (SC category) in Rajasthan Pre-Engineering Test

## **Technical Projects**

### ➤ **Remote controlled plane (March 2010)**

- Designed an RC plane using balsa wood with rudder and aileron controls.
- Studied the basic concepts of lift, drag

### ➤ **Chuck glider and Boomerang (February 2010)**

- Designed and modeled balsa wood chuck glider and a paper plane
- Participated in the boomerang making competition

### ➤ **Wireless Remote controlled car (August 2009)**

Guide: Technic Club IIT Bombay

- Designed a wireless car which had to pass through certain obstacles and complete a path in Minimum time and secured 8th position out of 100 teams in the freshmen year

## **Programming Skills**

- Programming languages: C++, HTML, PHP
- Software: MATLAB, Scilab , Latex, Mathematica

## **Academic Courses**

- Introduction to Aerospace Engineering, Solid Mechanics, Engineering Design  
Aerospace structural mechanics, Fluid mechanics, Control Theory, Aerodynamics, Composite Structures, Flight Mechanics II, Space Flight Mechanics, Engineering Design Optimization
- Computer Programming and Utilization, Overview Of Macro and Micro Economics, Data Analysis And Interpretation, Sociology
- Integral Calculus, Differential Equations, Linear Algebra, Numerical analysis
- Engineering Graphics and Drawing, Machine Drawing, Experimentation and Measurement Labs, Aerospace Measurement Lab, Simulation and modeling lab, Controls Lab, Aircraft Structures Laboratory, Aerodynamics Laboratory

## **Extra Curricular Activities**

- Coordinator in Asia's largest technical fest Techfest,IIT Bombay
- Organizer& Coordinator in Mood Indigo,IIT Bombay in subsequent years
- Coordinator in Zephyr (Aerospace Department Festival )
- Coordinator in Entrepreneurship Cell IIT Bombay
- Part of GRA (Group for Rural Activities)Team NSS(National Service Scheme) IIT Bombay

## **Interests**

- Web Designing
- Aero modeling