



Ashish Sangle  
Indian Institute of Technology, Bombay

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Male  
DOB: 20/10/1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	5.77
Intermediate/+2	CBSE	St Paul H.S. School	2009	80.00
Matriculation	CBSE	Cambridge International H.S. School	2007	92.00

#### SCHOLASTIC ACHIEVEMENTS

- Qualified the **IIT-Joint Entrance Examination 2010** and secured a rank of 7558 (98.7% percentile) out of 0.48 million Candidates contesting for the test.
- Qualified MPPET 2010 with rank in top 180 out of .1 million Candidates contesting for the test.
- Secured 92% in 10<sup>th</sup> CBSE board with A+ grade in all subjects.
- Recipient of prestigious IIT BOMBAY MCM scholarship.

#### RESEARCH AND DEVELOPEMENT

##### PROJECT BIOSYNTH

WINTER 2011- continuing

Faculty Mentor: Prof. Sanjay Mahajani Chemical Dept, IIT Bombay

- The aim of the project is to utilize waste vegetable oil as its raw material and to produce an environment friendly fuel, **Biodiesel**.
- Performed various lab runs in different conditions to optimise the process protocol.
- Carried out the **commissioning** of the Biodiesel Plant by water runs, pressure testing of each component.
- Currently working on esterification process to maximise the yield of process and minimise the cost involved. To calculate optimum temperature and concentration of reacting components.
- The Main objective of the project is to find the effect of stirring speed on esterification. And then Obtaining a correlation which can effectively relate stirring speed (which affects the Reynolds' number in the reactor) and the rate of reaction of esterification in the reactor.

#### ACADEMIC PROJECTS UNDERTAKEN

##### ➤ C++ Project

(Oct-Nov 2010)

Guide: Prof. D.B.Phatak

- Implemented a snakes program by using C++ and **EZ Windows** graphics system.
- Incorporated the Graphical User Interface.
- The project involved data storage and handling, scoring and movement algorithm.

##### ➤ Sulphuric Acid Plant (RCF)

(Feb-Mar 2010)

Guide: Prof. Sanjay Mahajani (Chemical dept, IIT Bombay)

- Learnt the working of Sulphuric Acid Plant at **Rashtriya Chemical And Fertilizers Ltd.**, Mumbai
- Studied the complete **process** and **manufacturing** of Sulphuric Acid using **DADC Technology**.
- Performed complete mass and energy balance for Sulphuric Acid process.

#### COMPUTER SKILLS

- Programming languages : Advanced knowledge in C, C++.
- Operating Systems: Windows, Linux.
- Tools & Applications: Basic knowledge in JAVA, HTML, MS Office, **Photoshop**, **Sony Vegas** and **web page designing**.

#### RELEVANT COURSES UNDERTAKEN

- Chemical Reaction Engg, Fluid Mechanics, Molecular and Statistical Thermodynamics, Chemical Thermodynamics, Transport Phenomena, Heat and Mass Transfer, Data Analysis and Interpretation, Economics.

## POSITIONS OF RESPONSIBILITY

### ➤ Techfest

- Worked as a **co-ordinator** in the Ozone department of Techfest'12, the annual technical festival of IIT Bombay. Organised gameshows such as poker, bluffmaster and bluff with over 500 participants competing in each event.
- Mentored a group of organisers for better functionality of these competitions.

### ➤ Mood Indigo

- Currently working for Mood Indigo (IIT Bombay's Annual Cultural Festival, Largest college cultural festival in Asia) in **HORIZON** department.
- Worked as an organiser in **HORIZON** Department.

### ➤ Team Member, BioSynth Summer 2011-Continuing

- Active member of IIT Bombay's self sustained Biodiesel producing plant

## EXTRA CURRICULAR ACTIVITIES

### ➤ Technical Activities

- Build an **autonomous robot** that follows a line of specific width and participated in Line Follower Inter-Hostel Competition.
- Build a basic **automobile with wireless remote** control which cleared a distance around the 200m circular containing many obstacles and a small pond of water.

### ➤ Cultural Activities

- Participated in school level competitions of Group-singing and Drama.
- Part of the team that put up the prod for PAF "Chasma-e-naam".

### ➤ Others

- Participated in adventure camp held in raigarh.
- NCC B Certificate with successful completion of 10 days camp at IIT Bombay.
- Active member of the Hostel Literary Club and Hostel Speakers Club.
- Can play several sports took part in Table Tennis and swimming events in Hostel.

### ➤ Interest

- Passionate about web page designing, **video editing** and **poster designing**.
- I'm a **Hobby photographer** with keen interest in still photography.
- I'm an avid gamer with interests in competitive games.